

FARM AND DAIRY

January 12, 1911.

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When investing your money you desire to put it where it will bring the largest returns and at the same time be safe.

A Cream Separator is sometimes an item of expense, but it should be an investment.

A Simplex Link-Blade Separator is a wise, safe and profitable investment.

As we said last week. it will make money for you by saving Butter Fat.

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The bowl runs at a low rate of speed, but each machine will separate 50 to 100 lbs. more than its rated capacity.

A Simplex Link-Blade Separator which has the Self Balancing Bowl is one of the best investments you can make this year, 1911.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



THE DAIRYMEN'S CONVENTION AT PERIN

Important Matters Debated-Free Trade in Dairy Products Favored - Whey Butter Should be Branded.

Incidents of more than usual inter-st that occurred last week at the intry-fourth annual convention of the astern Ontario Dairymeri's Associa-ion, held in the town of Perthin-iaded the following: First, the pass-ig of a resolution urging that the gate or the second trade in the trade of the second trade in the second the second trade trade trade in the second trade trade in the second trade trade in the second trade trad est that occurred last week at the thirty-fourth annual convention of the thirty-fourth annual convention of the Eastern Ontario Dairymen's Associa-tion, held in the town of Perth in-cluded the following: First, the pass-ing of a resolution urging that the Dominion government be asked to pro-vide for complete reciprocal trade in dairy products with the United States; Second, an intimation by Hon. James Duff. Minister of Agriculture for Om-Duff, Minister of Agriculture for On-Duff, Minister ef Agriculture for On-tario that farmers should not seek such trade and that they not seek such trade and that they food be objects through the farmers' dist third, the passing of a resolution seeking legislation by the Dominion government that will necessitate wheny butter being branded as such; Fourth, the passing of a resolution urging the Dominion Government to require the exporters of dairy products to furnish Dominion Government to require the exporters of dairy products to furnish bonds to guarantee payment of the goods they purchased as is done by the grain dealers in western Canada; and, Fifth, the passing of a resolu-tion urging the Dominion Dairy Cemtion triging the bominion Dairy Com-missioner to appoint a commission of experts to investigate the different methods of paying for milk delivered at cheese factories in beth Canada and the Twind Clarks with the view of the United States, with the view, possible, of recommending some meth-od that will be acceptable to our Canadian dairy authorities.

adian dairy authorities. OFFICERS ALECTED The following officers were elected : Hon. Presidents, Scnator D. Derby-shire, Brockville; John R. Dargavaj, Eigin, Ont; president, Henry Glen-dinning, Manilla, Ont.; Iat vice-pres., J. H. Singleton, Smithe Falls, Ont.; 2nd vice-pres., G. A. Gillespie, Peterboro, Ont.; secc., T. A. Thomp-scn, Almonte, Ont.; treas., Jas. R. Anderson, Mountain View. Anderson, Mountain View. Anderson, Belleville. Representative Gerrath, National Exhibition, Ed-ward Kidd, C.P., North Gower. Executive, Gr., Ont.; G. A. Gillespie, Peterbore, Ont.; G. A. Gillespie, Peterbore, Ont.; J. H. Singleton, Smithe Falls, Ont.; James Sanderson, Kemptville, Ont.; James Sanderson, Kemptville, Ont.; J. Payne, Briaston; Nelson Stone, Norham.

Directors, the members of the ex-Directors, the members of the ex-eutive committee and Messre. Thos. Thompson, Madcc: Willett Farley, Canifon; Charles Anderson, Over-ton: J. B. Wilson, Gananoque; John F. McGregor, Alexandria; Neil Fraa-er, Vanleek Hill; W. J. Johnston, Eamers Corners; W. H. Olmstead, Bearbrook; Albert Soctt, Pakenham. THE REFERENCITY QUESTION

THE RECIPROCITY QUESTION Possibly the most interest centered Possibly the most interest centered around the resolution seeking for free trade in dary products with the United States. The wide discussion that has taken place on the tariff question since the great deputation of Canadan farmers waide on the Dominion government in Ottawa recently as well as the apparently con-certed effort that has been made since Correct entert quarters to create the impression that Ontario farmers are not as anxious for better trade rela-tions with the United States as are the farmers of the West had prepared the way for the consideration of this

the farmers of the West had prepared the way for the consideration of this subject. Considerable interest was foll concerning the stand the onven-tion was likely to take on it. The motion favoring better trade-relations was curried unanimously. Not a voice was raised against it. This goes to prove what has been claimed by the representatives of the farmers that 'hose farmers who have oriven the matter any consideration at given the matter any consideration at all are practically unanimously in favor of the establishment of better

THE WHEY BUTTER QUESTION

THE WHEN BUTTER QUESTON One of the best discussions took place over the question of the brand-ing of whey butter. The place Instructor G. G. Publow Cheff Dairy Instructor G. G. Publow Cheff in the manufacture of whey butter. These factories. frem May 1st to No-vember 1st, made 422,022 lbs. of whey butter. A considerable proportion of the butter was inferior in quality and dealers complained about it. Cream-ery men were beginning to fear that is would injure the reputation as ery men were beginning to fear that it would injure the reputation as well as head of good creamery lutter. A considerable number took part in the discussion which finally resulted in the convention declaring itself practically unanimously, only two voted against the proposal—in favor of all whey butter being brand-ed and sold as such.

GUARANTEE OF PAYMENT

For many years there has been an average of one failure a year among the produce firms handking cheese and butter. Hundreds of thousands of dollars have been lost by dairy farmers whose products have been handled by these firms. A deputs tion was present from the Odutava Cheese Board who asked that the As-sociation should join in presenting a memorial to the Dominion govern-ment asking that the produce firms shall be required to furnish satisfac-tory bends to the government to guarantee the syment to the farmers of all goods they purchase from them. For many years there has been an of all goods they purchase from them.

of all goods they purchase from them. In the west, grain dealers handling the farmers' grain are required by the Dominion government to furnish bonds to guarantee payment. The grain dealers are required, also, to furnish the government with state-ments showing the volume of the busi-ments showing the volume of the business they transact so that the governness they transact so that the govern-ment may be able to require them to increase their bonds should necessity for such action seem desirable. The matter was referred first to the reso-lutions' committee which later reportlutions' committee which later report-ed favorably on the proposal. The convention later endorsed it and aub-sequently the directors appointed Mr. Edward Kidd, M.P., of North Gower to represent the association any deputation that may wait on the enventment in cannedium with this government in connection matter. A meeting of dairymen will be held in Ottawa the latter part of this month to discuss this matter. Cheese factories are being invited to with this send delegates.

send delegates. PAVING BY THE TEST Evidence of the increased interest that is local to the increased interest that is local to the increased interest determine for milk by cheases fac-tories wring for milk by cheasing of and protected debate that took place on the subject. All the leading dairy auther subject. All the leading dairy authers infair to the patron supplying milk unfair to faying for milk was entrained for paying for milk was estimated to faying for milk both tosts, thest are well as by the test plus two, were more fair

milk by the straight test as well as by the test plus two, were more fair than the pooling system. George H. Barr, Chief of the Dairy Division, Ottawa, pointed out that there was a divisicn among the lead-the constant dairs action in a stoing Canadian dairy authorities as to the system of test which should be (Continued on page 6)

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among cheese usands dairy been enutettawa ing a firms tisfact to rmers them The o, to busi-vernm to The reso-port-The suborth n on the will t of ter. 1 to rest cf ethfac-ted ook ing for ron ter for ... air irv ad-

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N these later days, the runleaps and bounds and this in spite of the efforts of the most economical. In order to show profit there must be a margin over the cost of production. Since the running expenses, due to various things beyond our immediate control, have taken such an advance, it is up to us, in order to obtain a proper margin, to boost our receipts.

Issued

Each Week

Vol. XXX.

10-

G. A. Brethen

lished? There are two ways before us. First, Ly increased production on our farms; secondly, by a more intelligent marketing of our products.

The prosperous pioneers of this country garnered their wealth by dint of hard physical effort and by the exercise of strictest economy. While the returns per acre which they secured look very meagre as compared to those of a well-managed fruit, dairy or stock farm of to-day, yet, as the running expenses of a farm in those almost recent days were also very moderate in comparison, they were enabled to keep a fairly wide margin between expenses and receipts and they laid by a moderate recompetence.

Ours is the age of specialties. It is the age when the man, who directs all his energies to the production and development of his chosen product, is able to place

before the consumer something a little better than his fellows, and which will in return command him a special price for his offering.

SOME SPECIALTIES

To the man with an inherent taste for fruit farming, the wonderful returns from orcharding and the culture of small fruits should prove very

"An essay prepared by Mr. Brethen in compli-ance with the rules of the Dairy Parms Compe-tion sonducted by Farm and Compared the was a successful competitor. Mr. Brethen has had but a comparatively short career in breeding pure bred Hel-steins, but he has made a marked success of them.

enticing. Potato growing as a specialty has apparently proved a boon to the farmers of New Brunswick, while wheat is the magic word that has lured people to the West. For the man, however, with a love for good cattle-big his heartpure bred cattle breeding affords a sphere well worth the consideration of any man.

FARMAND DAIRI

RURAL HOME

FOR WEEK ENDING JANUARY 12, 1911.

OUR DAY OF SPECIALTIES AND ITS RELATION TO PURE BRED CATTLE*

G. A. Brethen, Peterboro Co., Ont.

Receipts from the Farm Need Bousting in These Days if There Would be a Satisfying Margin of Profit

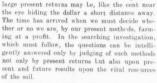
Some Note of Changing Conditions-Pure Bred Cattle as a Means of Increasing One's Income.

ning expenses of our

farms have risen by

How can this be accomp-

The breeding of pure Lred cattle has its drawbacks, we will not deny. And what line of endeavor has not? We must not overlook the fact. however, that when the fruit crop fails and the orchard returns are light, when the rct attacks the potatoes, and frost the wheat, and in days to come when all these industries will cry out loud and long for mulch and fertilizer in the shape of old-fashioned farmyard manure, the old dairy cow-of the right sort-goes right on pre-



Only \$1.00

a Year

No. 2

It is here that stock raising will stand the closest scrutiny. Farms that a few years ago could only feed 30 head of cattle to-day are feeding better than ever and feeding double that number. It is explained by the increased production and growth of suitable crops. These results are very encouraging to such a farmer when he looks around and compares them with the ever decreasing returns of his neighbor who still persists in beating the air in a vain endeavor to show a profit from straight grain farming practised in the more thickly settled portions of the clder provinces.

> Granted then that we keep cattle. We had better keep the pure bred ones. The results from such are so much surer. If you want milk, a dairy cow bred and developed for generations for this purpose alone will much more surely produce it in larger quantities than one that apparently has just come with no special object in view-her production will be just as indifferent as her breeding. KEEP PURE BRED CATTLE

No matter how modest a start you make in the breeding of pure bred dairy cattle a few years hence you will wake up to the fact that you have gathered quite a herd of registered steck around you and you are in the game. A year ago in Farm and Dairy I expressed the opinion that a man that was not making a success of grade dairycattle should not enter the breeding

senting her owner with the jey of his heart, a pure bred calf, milk, butter, cream (whipped cream, ice cream), and about all the other delicacies one would find at "Cosey's Ball," barring Peterboro circle eggs (Duff Brand), and Irish potatoes.

A Canadian Record Breaking Holstein of Remarkable similarity to Missouri, Chief, Jusey Line,

This illustration of Netherland Angrie De Kol appeared in Farm and Dairy May 20th 1969. We re-produce it again to show her similarity of conformation to that of the world's milk record ow as as hown in our front over this week. This ow, "Retherland Angrie". It will be remembered, was owned by J. adian record. She was, and gave 21.566 lbs. of milk in one year, which up to that time stood as the Can-adian record. She was and set of the set was a batter a 17 year old by. Had she been given the same experienced and scientific care a wavehew Yan Patter- a 17 year old bate would in all probability have made a much larger record. Note particularly the veining on the udders of these two cores.

DAIRYING A CERTAINTY

The certainty of dairying is what appeals to me. Any farm practice that, in order to show a profit, is dependent upon the robbery of the fertility of the tarm looks to me, no matter how of registered stock. A case has recently come under my observation that has caused me to modify the foregoing to some extent because right here in my own neighborhood there is a farmer who, although having indifferent results with grade cattle, is more than making good with his first experience with registered stcck His Holstein heifer is now producing around 70 pounds a day of 3.8 per cent. milk, and his awakened enthusiasm is bound to keep him (Continued on page 5)

Common Sense in the Cattle Stable*

Prof. G. E. Day, O.A.C., Guelph The farmer is noted for being conservative, but in regard to breeds of live stock, that which is new is apt to prove more attractive than the old. We find men who have failed with Ayrshires turning to Holsteins or Jerseys or some other breed to help them out, and men who have failed with Holsteins or Jerseys or some other breed, flying to Ayrshires for relief, and the cry is heard throughout the land : "Which is the best

breed of dairy cattle?" Let us stop and ask ourselves why all these breeds continue to exist and to prosper in this country? If any one breed outshone all others in every respect, would it not have replaced all other breeds by this time? All breeds have their misfits. There are good, bad, and indifferent animals in all breeds, and, so far as any person knows, it requires just as much brains, just as much skill, just as much intelligent and persistent effort to make a success of one breed as of any other. The man who fails with one breed is not likely to succeed with any other, and the man who studies and knows the breed he is handhng will meet with his reward.

FEEDING

A full discussion of feeding cows will not be attempted, but there are several general facts of which no farmer should lose sight.

1. The cow is no latter day worker of miracles Her product must come either directly or indirectly from the food she consumes, hence, to be a large producer, she must be a large consumer. It does not follow, however, that all large consumers are large producers, and it rests with the farmer to discover the profitable and unprofitable members of his herd.

2. The milk of the individual cow is a product fairly constant in composition. There will be variations, but they are of short duration, and the character of the food has no marked or continued influence upon the composition of the milk. The bulky, home-grown fcods are rich in carbohydrates but are apt to be deficient in protein, from which is derived the casein, or curd, of the milk. If, therefore, a cow is given food which does not supply enough protein for the largest flow of milk she is capable of producing, she will go on giving milk containing the same per cent. of casein as she would if her food were rich in protein, and the only way she can do this is to cut down the number of pounds of milk. The farmer who appreciates the fact just stated, is in a much better position to buy foods to advantage than the men who trusts to luck in making his purchases.

BE AWAKE WHEN PURCHASING FEEDS

3. There never was a time when the farmer needed to be so wide awake in the purchase of foods as he should be to-day. So many new foodstuffs are being placed upon the market that it becomes absolutely necessary for the purchaser to know something of the use of the different constituents of foods, and to know the composition of the food he is buying, if he would invest his money to advantage. The following quotation is taken from an advertising circular issued by the vendors of a new foodstuff, the name of which I have omitted.

"As we have shown, the composition ofrich in carbohydrates, is pecularly contributive not only to the more plentiful yield of milk, but also to a higher percentage of butter fat."

When philanthropic gentlemen, imbued with a laudable desire to benefit the farmer, make a statement such as the one quoted above, is it not time for farmers to sit up and take notice? and is it not time that they realized the importance of knowing something of the functions of the

*An address given before the Eastern Ontario Dairy-aen's Convention at Perth last week.

principal constituents of foods, if they would pro tect their pocketbooks? With all the means of cbtaining information that we find in existence today, there is no excuse for the farmer who remains ignorant upon matters which so vitally af4 fect his business.

STABLES

We often allow fads to obscure facts. There are men who are cruelly neglectful of the health and welfare of their animals, and there are others who are cruelly solicitous regarding the same.

1. There are some who believe that the continuous manger is the only kind fit to use, but overlook the fact that it is recommended almost solely on account cf cleanliness, and fail to keep its surface clean. Many of these continuous mangers

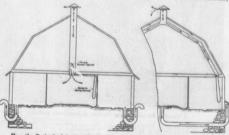
Hear Jost

The Rutherford System of Ventilation-The Approved System for Farm Stables

The automatical states of the states of the system of the system of rentile Cross sections, end and side views showing the principle of the system of rentile tion designed and placed in practical operation by Dr. J. G. Rutherford, Live Stock Commissioner and Veterinary Director-General for the Dominion, are here given. Ventilation of farm stables by means of windows is by no means satisfactory. The cut below shows how this system may be installed in barns already constructed.

are so constructed, that they are open to grave objections.

Greek mythology tells us of Tantalus, scn of Jupiter, who, as a punishment, was made to stand in water up to his chin, with choice fruits suspended just above his head. When he attempted to drink the water receded, and when he attempted to grasp the fruit, it moved away just out of his reach. A poer cow with her neck through



How the Rutherford System May be Installed in a Building Already Constructed

Every farmer who considers the welfare of his stock and his own ultimate suc-build provide some effective aystem of resultation in his stables. What some people will be added to be ing. dripping poison belows Day, in the has to say about ventilation and other matters in the adjoining article, "Common Sense in the Dairy Stable."

a stanchion, struggling and straining to get the food which has escaped just beyond her reach is a modern representation of the ancient Tantalus. The danger of injury, especially to a pregnant cow, is too obvious to require explanation. I believe that many abortions may be traced to this cause. Further, the manger which allows food to escape upon the floor of the passage, from which it is swept back into the manger along with any filth which may have dropped from the attendant's

Loots, is not constructed upon sanitary principles The old-fashioned manger, constructed to avoid sharp corners, is much to be preferred to one which permits either of the evils just described.

WATERING

2. Watering presents serious problems. Outdoor watering, where the cows drink or try to drink ice water, and where the strong oppress the weak, is barbarous. Whatever system of inside watering is adopted, it should be arranged so that the pipes and water troughs can be flushed and cleaned. There is little to say in favor of providing each cow with a separate drinking basin which is so constructed that it cannot be cleaned. A continuous water trough, open and easily cleaned, would be preferable in spite of its objection-

able features.

3. Everybody under stands something of the benign influence of light upon all forms of animal life, yet how many there are who seem afraid to put a few extra panes of glass in the stable walls. The dreary dungeons in which some cattle are kept, would seem to be purposely designated to shorten the cow's span of life, and a really well lighted stable is an exception instead of the rule.

OUTDOOR EXERCISE

4. Outdoor exercise in . inter is a matter at which many dairymen balk, but filling the lungs a few times

a bulwark against disease. Outdoor exercise does not mean turning cows cut in the morning and leaving them to shiver about the yard until evening, but with a well sheltered yard there are few days when ccws would not be benefited by a brief turn outdoors. It might be only a few minutes, or it might be an hour or two, depending upon weather conditions, but it would give a chance

to thoroughly air the stable. It might mean a few pounds less milk, as many claim, but it would give us more vigorous breeding animals. 5. Ventilation has been talked so much that it has become a hackneyed subject, but it seems the talking has not been particu-

larly effective. Dairymen seem convinced that high stable tem peratures are necessary to the highest milk records. Perhaps they are, but it is possible to pay too much for a good thing. Is it worth while to poison a good

cow for the sake of a few pounds, or even a few hundred pounds of milk? Would it not be wiser to spread her usefulness over a few more years even though she may not break any records? Personally, I do not think anything is gained by this poisoning process, and I believe a cow will do beiter work in the long run in a well ventilated stable, even though the temperature may be as low as freezing point at times, than she will in (Continued on page C)



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January 12, 1911.

A Means of Increasing the Profit per Cow*

Chas. F. Whitley, Ottawa, Ont. In this advanced twontieth century, in this old cradle district of good dairymen, we should sectoually enquire, are there any cows in this county to-day that do not earn a profit?

Chart No. 1 gives the age and the production of each cow in an Ontario hord of 14 grades and is typical of scores of herds in that particular district, as well as, probably, many other districts. One thing is certain, it would be easy, from our records, to tabulate the results of plenty of herds far pcorer than this. There is every indication of a dead loss with at least three poor cows, one of them a 7-year-old. ORMEN NO. 1-PRODUCTION OF AN ONTAIND THEM

SEVEN BEST COWS			SEVEN PO		OREST	COWS	
Cow 1 2 3 4 5 6 7	Lb. Milk 5460 5060 5000 4870 4620 4620 4670 4463	Lb. Fat 185.4 178.9 170.3 169.6 165.6 160.8 160.3	Age 5 8 7 10 7 6 9	Cow 8 9 10 11 12 13 14	Lb, Milk 4150 4280 3790 3640 3480 3390 2890	Lb. Fat 144,4 139,7 132,6 125,2 124,0 112,6 98,8	Age 6 7 6 3 Loss 7 Loss 3 Loss
1	34,143	1,190.9			25,620	877.3	

From these figures there rings out the challenge of the poor oow, a challenge to a modern farmer's intelligence and forethought. How long is she to be allowed to misappropriate good feed and act as a common poacher? Should she not be arrested as a vagrant and waster?

The figures also emphasize the heavy burden of the good cow. They not only have to "make good" themselves besides helping to pay off the mortgages, but they have the hereulean task of dragging a few hundred thousand poor cows up a heavy grade before all, good, bad and indifferent alike, can be represented as showing anything like a fair average yield.

The following details of this herd are worth careful consideration :

ONE COW EQUAL TO 14

Chart No. 2-Analysis of Production of an Ontario Herd.--1. Avorage yield of hord, 14 grade cows, 4,269 lb. milk, 3.4 test, 148 lb. fat. Avorage yield of 7 best cows, 4,878 lb. milk, 3.5 test, 170 lb. fat. Avorage yield of 7 porest cows, 3,660 lb. milk, 3.3 test, 125 lb. fat. The best cows avorage 1,218 lb. milk and 45 lb. fat more than the poorest.

2. The total earnings of the best cows are \$55.23 mcre than the poorest. The total earnings of cow No. 1 are \$20.70 more than cow No. 13.

3. With cost of feed at \$35, the 7 poorest cows average \$1.60 profit: making a total profit of \$11.20.

4. Cow Nc. 1 makes \$19.60 net profit. Cow No 11 makes \$1.40 net profit.

5. Thus cow No. 1 makes as much profit as 14 cows like No. 11.

ONE COW EQUAL TO 42

Fancy keeping seven cows for a whole 12 months to make the magnificent profit of \$11.20! This means eight hours' laber for one cent. How many of such cows would a man need to make a profit of \$1,000.00? Further than this, in comparing the yields of 524 Ontario cows, I found that one quarter of them gave an average yield of 282 pounds of fat and one quarter of them gave only 145 pounds of fat. With a value of 24 cents per pound placed on the fat, and \$34.00 on the cost of feed, the profit in the one case is \$33,68, but in the other only 80 cents. Stated in another way it means that case of the good cows made as much profit as 42 of the poor ones.

LOSS OF HALF A MILLION A MONTH As far as the ordinary factory patron is concerned he wants only good cows, cows that are prefitable. Unless a cow is just on the dead

"Part of Mr. Whitley's address before the Dairymen in convention assembled at Perth Ont., last week. line where income and expenditure just balance, she is kept either at a profit or a less. If kept at a loss, in what does that loss consist? At least both cash and time. Let us make a very simple calculation to ascertain the loss in cash In the month of September there were 3,500 cows recorded in Ontario testing associations with an average yield of 722 pounds of milk. On dividing these cows into two groups, those giving above that average and those giving below it, we find that the better cows produced more milk than the pcorer cows to the value of \$2,852.00. On the average the better cows produced 163 pounds of milk more than the poorer cows. Let us be liberal and cut off all the odd 63 pounds; then assuming that half the cews in Ontario could have produced only 100 pounds more milk per cow, we arrive at this astounding result, that through keeping poor cows instead of fairly good cows there was lost in just one month the huge sum of half a million dollars. Every month the poor cows are behind the good cows in that proportion of cash earnings. The poor cow must go! Cow testing helps to detect her.

ENERGY GOING TO WASTE

. There is also a most serious loss of time and energy The chart indicates less with three out of 14 cows. Some patrons are keeping twice as many, and in other cases actually three times as many, cows as their neighbors to obtain even less milk. It has frequently been stated that one half of the cows in the Province do not pay, but so as te make no wrong deduction let us take only 3 out of 14; this would mean 214,000 worthless cows in Ontario. Estimating that the time spent in going after the cows, milking and feeding them, and cleaning stables amounts to only 15 minutes per day per cow, this amounts to 90 hours lost during a year, which with 214,000 cows antounts to ever 19 million hours' time lost in Ontario every year on poor cows. This is a teriffic waste of energy.

Time is money. We pay low-grade, casual, unskilled labor 15 cents an hour, sometimes 20. Is the farmer, the head of a going concern, the President of the Company, to be rated as low, or lower? What return per hour does he expeet for his labor, for his thought and skill as manager? From the humanitarian and philanthropic standpoint especially, it is impossible to estimate the harm now being done to the country from this waste of time and human energy; or, on the contrary, the vast amount of good that would ensue not only to the men themselves, but to their immediate dependents, the women and children, if this Niagara of wasted power were turned into profitable channels. Two and a half million horse-power wasted as irretrievably as that of a squirrel in a cage-endless revolution, nothing accomplished !

APPALLING WASTE OF ENERGY

An important national problem receiving attention to-day is the conservation of our natural resources. What we need, and I alubnit this is a problem of far greater importance, is an awakening to this appalling waste of dairymen's onergy, this sacrifice of human life in Ontario.

Chart No. 3—Production of Two Ontario Hords.—1. Average, 15 grades, 6,210 lb. milk, 3.6 test, 228 lb. fat. Lowest yield, age 4, 5,210 lb. milk, 3.6 test, 191 lb. fat. Profit varies from \$16.00 to \$37.00 a cow. (Feed \$40.00.)

 Average 9 grades, 6,567 lb. milk, 3.6 test, 241 lb. fat. Lowest yield, age 2, 4,690 lb. milk, 4.0 test, 187 lb. fat. Herd includes two 2-yearolds, three 3-year-olds. Average profit, \$25.00 per cow. (Feed, \$40.00.)

Each cow makes a fair profit.

Note the remarkable extra increase in profit as the milk yield increases. A yield of 4,500 lbs. milk may give \$5.00 profit above cost of feed, but a yield of 9,000 lbs. milk may give \$40.00 profit; that is, twice as much milk, but eight times as much profit.

Chart No. 3 is intended to emphasize one or two points. First and foremost is the fact that each cew in both herds earns a profit above the cost of feed. There are no exceptionally heavy yields, but there are no poor cows being carried at a loss. That is what makes these two herds so satisfactory. Both of the two lowest yields of fat (one from a 2-year-old) are actually higher than the best yield in the first chart. It is the man not the cow that is responsible. His orains should discriminate.

These represent two fairly good average herds, due to selection of records; herds of fairly uniform production, herds in good working order on a profit-bearing basis, and herds that will probably be considerably improved. Such herds are needed on every dairy farm and are easily within the grasp of any man who will adopt cow testing.

SUBSTANTIAL INCREASE IN MILK YIELDS

The brighter side of the picture is the steady growth of cow testing associations, in the number of individual farmers taking up the system privately, and in the substantial increase in milk yields they have obtained. Several instances of such definite gains were published in our last annual report. We still have much to accomplish; we should be able to show a similar or even a better increase than the dairymen in Swedeu, who in six years have made a gain on 30,000 cows of 31 per cent. in the yields of milk-This will come when our farmers are known by the sign of the "triple S"—silo, scales, and samples.

The Dairy Division has endeavored tc give just as much encouragement to oow testing in the East; a representative of the Department is aways available to help any locality that shows any interest in taking up the matter. The Department still offers to pay any maker at the local factory for testing the samples, so that farmers are at a minimum of expense, having just to provide scales, dipper and sample bottle.

More than three times as many cows were under test in 1906 as in 1906, the figures running close to a total of 54,000 during the year. These are cows in connection with associations. In addition to this several thousand blank record forms have been distributed to individual farmers, not belonging to associations, who are also keeping records as a result of frequent announcements made by the Department.

Our Day of Specialties

(Continued from page 3)

Of course, the value of the calves, in addition to the milk production, as a very streng argument in favor of breeding registered cattle. While it is sometimes a question in the minds of some as to whether or not it pays to raise the grade calf there is no such question bothering the mind of the breeder of pure bred cattle.

And then with pure bred cattle there is the influence of the business upon the man himself. I have met many men in all branches of live stock breeding that were enthusiastic. I have met very few men who are working along haphazard methods of breeding of grade cows that showed the slightest interest in their undertaking. Work without being lightened by enthusiasm generally proves to be a drudgery; and while work is honorable, drudgery will drive the noblest from the farm. The man that takes the initiative is the man that gets to the top. I know of no better education which will develop a man along all the lines necessary to success than that which may be obtained from the breeding, developing, and marketing of pure bred cattle. Come on, boys: step up!





YOUNG, P.D.F., 123 TEMPLE ST., SPRINGFIELD, MASS LYMANS Ltd., Montreal Canadian Agents

AGENTS WANTED

65.00 a day easy. No experience needed. 8ells on sight. Absolute necessity to farm-ers. Does work of 30 men. Pays for itself in one hour. Write to-day. MODERN MACHINERY CO., Box 87, Sarnis, Ont.

Land For The Settler

160 acres of land convenient 160 acres of land convenient to Railways in Northern Ontario's great Clay Bels for each settlar. The soil is rich and productive and covered with valiable timber. For full information as to terms of sale and homestead regulations, and for special colonization rates to settlers, write to DONALD SUTHERLAND.

Director of Colonisation, Toronto, Ontario

HON. JAMES S. DUFF, Minister of Agriculture, Toronto, Ontario



Peerless Lawn Fence Is strong and Attractive A II the virts are uniformly crimped, large gauge, steel spring wire, hearthy galvanies and coased with white small steeling strengths and coased with white small erry with a Peerless Parton. Duprove your pro-ery with a Peerless Parton. Duprove your pro-ery with a Peerless Parton. Duprove your pro-ery with a Peerless Parton. Duprove your pro-ter and pourly formed and use with a food III no of Arm and pourly formed and use the Association of the He BANNELL HOXE WIRE FERCE CO., Ltd. Dept. H, Hamilton, Ont., Winnipeg, Man.



FARM AND DAIRY

Our Front Cover Illustration

Missouri Chief Josephine, the cham-pion dairy cow of the world, a photo of which is reproduced on the front cover of Farm and Dairy this week, and which cow is new completing a yearly record which smashes all yearly record which smashes all pre-vious records for milk production is a most remarkable animal. Her record is the more remarkable in that it is said no special proparation had been given this cow for this test and she has done her full duty in the regular desire head is that Trivite regular dairy herd in the University of Mis-scuri, where she is owned, having had five calves in five and one-half years. She is now eight years old.

She is now eight years old. An article, in "The World To-Day," by Horace R. Davis, states that it costs about 77 cents a day to keep Josephine, and her daily production is worth \$4. According to Mr. Van Note, her attendant that is the ccet of her feed alone.

Included in her production we must include a \$3,000 calf. Her calf was worth \$3,000 at the end of the six months' record and will be worth more when its mother completes her year's test. Josephine's value, on the strength cf her six month's record, scrength or ner six month's record, is estimated at \$20,000. When she has completed her year's test with a world's championship record for the full year, as well as for the six months, she will be worth two or three six times as much as she is now. The entire article by Mr. Davis

about this record making cow, will be published in Farm and Dairy next week if space permits. Watch for it.

Dairymen's Convention at Perth

(Continued from page 2) followed. He claimed that as long as this division existed it was useless to expect the farmers to be agreed upon the subject. This ultimately led to the subject. This ultimately led to the resolution previously mentioned being carried unanimously. A more complete report of this discussion is given elsewhere in this issue.

THE ADDRESSES

Aside from the general discussion, the addresses delivered were unusual-Aside from the general discussion, the addresse delivered were unusual-ly interesting and instructive. Those on the "Benefits of Cew Testing," by C. F. Whitley, of the Dairy Division, Department of Agriculture, Ottawa; on "Common Sonse in the Cattle Stable," by Prof. Geo. E. Day, of the Agricultural Cellege, Guelph; On "Butter Making," by L. A. Zufelt, of the Kingston Dairy School; on Scien-tific Reasons for Taking Care of and foot Gooling Milk," by Dr. M. T. Con-tific Reasons for Taking Care of and foot Gooling Milk," by Dr. M. T. Con-and of Useens Cellege, Kingston; and divident Farm, Ottawa, are either published in whole or in part in this issue of Farm and Dairy, or

One Man can make 300 to 600 Perfect Tile a day by hand and 1200 by power, on our

inch tile, 121/2 inches long. Our waterproof FLEXI-

TEN DAYS' FREE TRIAL. If after ten days' trial

Farmers' Cement Tile Machine Co.

WALKERVILLE. ONTARIO

will be in early issues. An outline of Will be in early issues. An outline of the address of the president, Mr. Henry Glendinning, of Manilla, is published elsewhere in this issue. The annual report of Chief Dairy Instruc-tor, G. G. Publow will be published in full.

IMPROVED QUALITY

IMPROVED QUALITY A sign of progress was the fact that who:reas three years ago, complaints of the poor quality of much of the cheese manufactured in Eastern On-tario, as well as of the condition in which it was marketed, used to be general at the conventions, it was re-morted has twolk that 90 par cost of ported last week that 90 per cent. of the cheese manufactured last year had been high grade. Chief Instructor the cheese manufactured has year has been high grade. Chief Instructor Publow as well as the well known cheese exporters A. A. Ayer, and A. H. Hodgson, cf Montreal, all bore testimony to this effect. The improve-testimony attributed largely to the ment was attributed largely to the work of the dairy instructors and sanitary inspectors. Mr. C. C. James, Deputy Minister

of Agriculture, Toronto, gave a schel-arly address which will be mentioned mcre fully later. An interesting a dress but one which dealt largely with generalities was given by Mr. N. P. Hull of Michigan, president of the

Hull of Michigan, president of the American Dairy Farmer's Association. Neither Dairy Grommissioner J. A. Ruddick or Live Steek Commissioner J. G. Rutherford, of Ottawa, were able to be present owing to sickness. In the absence of Dairy Cmmissioner Ruddick, Mr. W. W. Moore, of the Cold Storage Division, gave a full explanation of the work that is loing done by the Dominica Government in done by the Dominicn Government in the matter of furnishing cold storage facilities for dairy products from the railway stations in Canada to railway stations in Canada to the docks in Great Britain. The opinicn was expressed that the Government should endeavor to extend the icing privileges on the cars in Ontario so that dairymen will be able to take ad-vantage of them for smaller ship-ments. ments

Senator D. Derbyshire of Breckville Senator D. Derbyshire of Breckville presided in his own inmittable way at the evening meeting on Wednesday. Mr. J. R. Dargavel, M.L.A., presided at the evening meeting on Thursday. At this meeting, Col. Matheson, Pro-vincial Treasurer, presented a special prize to Mr. Victor Begg of Moose Creek, who way sixth Done in the prize to Mr. Victor Begg of automotive Creek, who won sixth place in the Dairy Farms Competition conducted throughout Ontario during the past throughout Ontario during the past Begg made a roply which proved very interesting as did the description that was given of how Mr. Begg had transformed his farm from a wood lot and swamp into one of the finest farms in the province.

WHERE MONEY IS LOST Dr. Chas. A. Publow, gave an in-structive address entitled "Where we are Losing Money in Cheese Making." This address was illustrated by means of charts which drew attention to the of charts which are attention to the little leaks that occur all along the line from the breeding and feeding of the cattle on the farm to the sale of the finished product by the factories. Special attention was devoted to loss-es that occur through the neglect to pasteurize whey. Figures were given which indicated that were factories to exercise more care in preventing an over run of fat into the whey, they could save more than they do now by being somewhat careless in this res-

being somewhat careless in this re-port and endeavering to regain their loss by manufacturing why butter. Mr, Geo. H. Barr, of Ottawa, gave his illustrated address on "The Care of Milk on the farm." Addresses were also given by Mr. H. A. Hodg-son, A. A. Ayer of Montreal, G. A. Putnam, Director of Dairy Instruc-tion, feronto, and by Dr. G. C. Creel-man of the Guelph Agreneiturs I Col-lege. Hon. Sydney Fisher, as he has on several previous occasions, failed to attend although he had been adver-tised as one of the spaskers. The attendance at the session was

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ocd. On Thursday evening the Opera good. On Thursday evening the O House was not large enough to acc modate the crowd. The hospita modate the crowd. The hospitality that was extended to the leading dairymen by prominent residents of Perth, including Capt. Matheson, who kept cpen house for three evenings in assion, was an outstanding feature of the convention.

Common Sense in Cattle Stables (Continued from page 4)

one of these stinking, dripping poison boxes, which some people call warm stables

To be effective, ventilation work unceasingly, night and day. It won't do to be constantly opening and closing the vents and inlets Vents are what would you think of a man who kept the damper of his stove tightly closed, and tried to improve the draft by increasing the number of steve pipes? This is the plan some of us are following in our attempts at ventilation. Experience leads me to prefer a system where the vents run from for a system where the rens run rises the ceiling straight up through the root, and the fresh air inlets are at or near the flocr, properly guarded outside and inside to prevent direct drafts. This system lowers the tem-mentium more than one where the perature more than one where the vent opens near the floor and the invent opens near the floor and the in-let is near the ceiling, but it will give much purer and drier air, and it is easier to prevent drafts when the in-lets are at the floor. The system re-commended is simple and inexpensive, and animals of all ages will thrive in the dry, cool air of such a stable in a wanner heaving to reach a manner pleasing to see.

TUBERCULOSIS

Only one disease will be dealt with bity one disease will be dealt with here, and that is tuberculosis. There are those who would make us believe that the whole bovine race is rapidly going to destruction through this disand there are others who make light of the whole matter, and regard light of the whole matter, and regard tuberculous as a very unimportant bling. As a rule, truth lies about midway between extremes, and while there is no need for panic and reck-loss alaughter, there is urgent need of being on one's guard. In dealing with tuberculosis, one thing must never he lost sight of.

thing must never be lost sight of: the disease is contagicus, and must be treated as such if we would fight it treated as such if we would fight it successfully. Whether it can be com-municated from animals to human beings, is a matter of dispute, but there is no gainsaying the fact that one animal will take it quite readily from another.

BANG SYSTEM AT COLLEGE

To illustrate what can be done in the way of fighting tuberculosis, I shall give the results obtained in an important herd which is under my su-Professor Wade, to whom is due the credit of the satisfactory results obtained up to the present. The herd was first tested with tub-

erculin in the spring of 1909. After the test, the stables were disinfected with crude carbolic, and afterwards (Continued on page 9)



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poison warm must ay. It ig and ts are ly so. n who ightly draft steve of us t ven-o prefrom h the re at arded direct tem-the ic in-give it is ie inm re-nsive, ve in le in

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January 12, 1911.

Corn at 56 Cents a Bushel

Lorn at 50 Cents a Duanci By combining with our neighbors and getting a carload at a time, corn can now be gotten at 56 a bubble. What portion the substituted by corn? Would it be pro-fitable to purchase corn for faittening hogs at this price? We are feeding mid-dings and bariey chop to our pigs at pre-dings that bariey chop to our pigs at pre-Corn at 56 cents is as cheap a horse feed as can be gotten : a proportion

Corn at 56 cents is as cheap a horse feed as can be gotten; a proportion varying up to one-half of the cat ra-tion for the working horse can be profutably substituted by corn. The production of energy and heat are the two main functions of the food of the horse; both energy and heat can be produced much more cheaply by carbo-hodates and fat then he concerned. hydates and fat than by proteins. A comparatively small amcunt of pro-tein is necessary in the ration of the slow working horse. But horses fed on corn alone become fat and sluggish

alow working norse. But norses req on corn alone become fat and sluggish and are incapable of great exertion. Horees fed a ration of equal parts of corn and oats by weight will not be so vivacious as those fed on oats alone, but they will do just as much work as those on a whole ration and will keep in better condition; and such a ration is cheaper. At 56 cents corn would be a cheaper field for fattening hoge than either middlings or barley chop. It would pay to got the corn ground; if not pos-sible tc do so, soak it before feeding. a mixture of equal parts corn and middlings will give larger and cheaper gains than either one when fed separately. Corn fed alone produces eoit sides, which are vory undesirable for the Canadian bacon trade.—E.

Experiments in Pig Feeding

<text><text><text><text> For seven years the Vermont Ex-

ting corn meal resulted in more pro-fitalle gains than feeding it dry. The fertilizing value of the focd fed in the various experiments has averaged 50 per cent. of its market value. In nearly all the experiments profitable gains ceased to be made after the pigs had attained a weight of 180 lbs.

FARM AND DAIRY

Talk No. 2

Durability

By

The Philosopher of

Metal Town

"EASTLAKE"

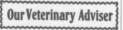
STEEL SHINGLES

Pointers about Swine

"Pigs is pigs," and prices will still run high. The acquaintance with other breed-

The acquaintance with other breed-ers is a great advantage. Keep an account with your pigs this year and see just how you come out with them. It is simply throwing away feed, and so good money, to feed on the greund. Have good, tight feeding floors, enough for all the porkers. Do you how that wore your going code

Breads, raye good, tight recenting floors, enough for all the porkers. Do you know that your pigs need and a set as your sheep and cattle? The set of the set of the set of the set them to easily you do not want box three feets rayure and six inches deep for the line and salt. Did you ever notice that your pigs would eat all the coal ashes they can get? Why not let them have all your ashes? They are worth nothing to you and the pigs need them. The ashes will also help to keep them from rooting. Figs root after something that their systems crave. A pig needs gritty staff. Why not let them fave such things?



STRANGLES.-(1) Is there a danger of a horse contracting strangles when tied in a shed where infected horses had been tied

(2) How should a case be treated?—A.
G. R., Peterboro Co., Ont

6. R., Feerboro Co., Ont (1) Yes. (2) Make a linament of three parts such of oil of turpentine and raw linseed oil and one part liquor am-monia fortier. Rub throat with this twice daily for three days. Keep throat wrapped with flamed ban-dages. Give three days. Keep throat wrapped with flamed ban-dages. Give three days. Keep throat wrapped with flamed ban-dages. Give three days three days digestimes daily and feed on easily digestimes daily and feed on easily form and syringe out the cavities three at syringe out the cavities three times daily until healed with three times daily until bealed with three days of the cavities three stimes daily until bealed with three daily open abscesses as they your velerinarian. your veterinarian.

STERILE COW.-(1) I attempted to treat a sterile cow as advised in Farm and Dairy of Sept. 25th last, but was not able to dilate the os. I then employed my veterinarian, and he asys the os is sur-rounded by fibrous rings or gristle rings. and he was unable to dilate the original state of the state of the state of the original state of the state of the state of the state of the original state of the state of th

(1) When fibrous growths are pre-sent a cutting instrument is neces-sary to make an opening and in such cases it is not considered wise to operate. Better the animal for beef. Even thou in might follow an operation ill prob-ably be a regroup fibrous tissue and the composition obably be

tissue and the cost probably be lost at parturition. (2) This might occur is an absorb-tion of the growths, which sometime occurs without treatment. (3) It is quite possible that con-ception would occur if an entrance to the wont, were effected either by di-lation of the os with a special instru-ment called an os dilator or by out-ting, but as stated we do not advise entring. cutting.

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Durability - just the difference between a roofing that lasts only a few years and one that remains in perfect condition for a life-time.

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Barn and house roofs covered 25 years ago with "Eastlakes" are in perfect condition to-day.

That's your proof-your only protec-tion, and is safer than all the highlycolored, many-worded guarantees that really guarantee nothing.

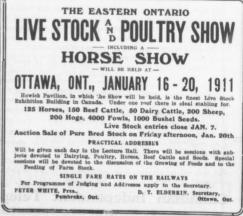
"Eastlake" Steel Shingles are made of the finest sheet steel, and have a patented side lock and gutter that locks permanently—makes the roof one sheet of indestructible steel.

They are easy to lay, and remain weath-ertight, snow, wind, rain, lightning and rust proof as long as the building stands.

Send for our illustrated booklet, "East-lake Metallic Shingles." It gives more reasons. Write to-day—a postcard brings the booklet.

We also manufacture Corrugated Iron, Barn and House Siding, Metallic Ceiling, Eavetrough, Conductor Pipe, Ventilators, etc.





******************** HORTICULTURE Lime-Sulphur the Best Spray*

L. Caesar, B.S.A., O.A.C., Guelph The second orchard sprayed in our work last season was the experimental This test orchard at Jordan Harbor.

was not so therough in some ways as the test in the McCrae orchard at Guelph [reported in Farm and Dairy, Dec. 8], because the varieties were Dec. 8], because the varieties were less subject to scab, being chiefly Baldwin and R. I. Greening, with a Baldwin and R. I. Greening, few Spy, Ben Davis and King trees, were several Snow whereas there were several trees in the McCrae orchard.

The dates of spraying this orchard were somewhat different. The first application was with lime-sulphur before the buds burst, the second was just after the blossoms fell. In this application I used in one-half of the orchard, lime-sulphur one to 40 and lbs. arsenate of lead; on one row of 15 trees the same strength of lime-sulphur with arsenite cf lime instead of arsenate of lead; on half of the remaining rows Bordeaux mixture 3, 3, 40 and two lbs. arsenate of lead; on the rest Bordeaux mixture about 2. 2. 40 and a little more than one b. of arsenate of lead. This last part was the first to be sprayed. The eaker wash was due to mistaken information as to the capacity of the spray tank. About three weeks later the whole orchard, except three trees at one end of each row, received ano-ther application with lime-sulphur, one to 40 and two lbs. arsenate of lead. This third spraying seemed to make very little difference in the results, which are as follows:

RESULTS 1. Scab-Unsprayed fruit, 5 to 50

*Part of an address before the Ontario Fruit Growers' Association meeting in Toronto last fall.

ELM GROVE POULTRY FARM

A choice lot of MAMMOTH BRONZE TURKEYS for sale. Improve your flock by buying a pure bred Tom Turkey. Also good Cockerels for sale, Single Comb Black Minorcas, S. O. White Leghorns, Rose Comb Brown Leghorns and Rouen Ducks.

J. H. RUTHERFORD, Box 62. Long Distance Phone CALEDON EAST, ONTARIO.

per cent. scalby; unsprayed foliage 20 to 90 per cent. scabby; disprayed forlage, fruit, 0 to 2 per cent. scabby; sprayed sprayed foliage, 1 to 3 per cent. foliage, 1 to 3 per cent. No difference in amount of scabby. scab could be seen in the different parts of the orchard, each mixture, even the weak Bordeaux, having given practically scab-free fruit and

FARM AND DAIRY

Wormy fruit-I have not yet re ceived the results of the count of clean and wormy apples, but judging from my own observations on Sep-tember 15th, I think the fruit will average about 87 per cent. free from worms of any kind.

3. Russeting of Fruit-None of the uit was badly russeted, but there fruit was was decidedly more russeting on Loth the Bordeaux plots than on the limesulphur, the latter apparently being very litle if any, more russeted than unsprayed trees.

4. Injury to the Feliage-In the row on which arsenite of lime and row on which arsente of time and lime-sulphur was used five per cent. or more of the leaves were rather severely burned, though no permanent injury was done. In the rest of the orchard there was some burning to be seen on most of the trees but not nearly so much as where the arsenite of lime was used, and not enough to cause any of the leaves to drop. The burning was somewhat worse on the Berdeaux plot than on the lime-sulphur and was just as se-vere on the trees sprayed with the weak Bordeaux as with the stronger.

In addition to the spraying of these two orchards I sprayed part of the College orchard at Guelph chiefly as an additional test to determine whether or not arsenite of line with lime-sulphur would burn. This mixture was used on the trees just be-fore the blossoms opened and again after they fell and was heavily apafter they fell and use test. Fi From the the spraying before the blossoms opened there was no burning of

foliage or so little that it was scarceperceptible. From the spraying er the blossoms dropped (Codling Moth spray) there was severe in-jury to both the fcliage and young fruit of Montreal Beauty and Hyslop voung crabs, and to Salome and one of two other varieties of apples. ral other varieties of apples were less sericusly injured, but more so than one would care to risk season after season.

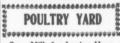
National Apple Show

Editor, Farm and Dairy,-I feel strongly the advisability of holding a National Apple Show in Ontario next fall. I think there is no question at all about Toronto Leing most suitable place to hold the show. most suitable place to hold the show. To make such a show the success we all would wish to see it will re-quire a great deal more effort than the board of directors of the Ontario Fruit Growers' Association can put forth. Some of the most important apple sections have no representation on the Ontario Fruit Growers' Asociation board. The directors will sociation board. The directors will have to be backed up by the rank and file of the leading growers all over the province. The Dominion and provincial governments, together with ccunty, city and township should contribute liberally township councils

should contribute liberally, and put up a prize hst of at least \$50,000. The press all over the province should take hold of the matter and boost it. Committees should be form-od in all the head in distributed by the head of the should be formed in all the leading districts to encourage the growers look after the collecting and proper packing of exhibits, or anything pertaining to the advantage of the show.

Now, Mr. Editor if we can all busy right now, (not next such that will be too late) we can show the great possibilities of this province and have the hears of building the and have the honor of holding the greatest apple show ever put up in the world. The best time to com-The best time to commence preparing for the next show the day after the last show is closed. -G. H. Mitchell, Secretary Georgian Bay Fruit Growers, Ltd., Clarksburg,

Have you forgotten to renew your abscription to Farm and Dairy?



Sour Milk for Laying Hens

"Did I tell you about feeding but-"Due 1 tell you about reeding but-ter-milk to my hens," said Mr. J. W. Clark, of Brant Co., Ont., a well known poultry man and Institute speaker, to an editor of Farm and Dairy, while in our office recently. "Professor Graham at the Guelph College and I have beth had splendid results from feading butter, "the The Guelph 1 results from feeding butter-milk. 14 takes the place of animal food in the ration and the germs in the buttermilk seems to have a boneficial affect on the digestive tracts of the hens. The germs that are always present in Lutter-milk seem to counteract other erms. We know for instance that germs.

And then butter-milk unlike water 1 not freeze. If it does freeze "And then blue blue and the second se would not reed sweet milk at al. a would much prefer to have it sour and I would have it sour before I fed it to my hens. Scur milk is prob-ably as good as butter-milk for in-ducing hens to lay eggs in winter."

Digestibility of Poultry Foods

The digestibility of the nutritive ments in our common foods is well own for all classes of farm animals ept poultry. Extensive experiments to determine the digestibility of foods for poultry have been carried on at the Maine Experiment Station. It was found that the percentages of digestible protein, carbo-hydrates and in most foods were the same as in the case of other animals except In the case of other animals except that poultry cannot make as good use of crude fibre as can ruminants, or even horses. The conclusions ar-rived at from these experiments follew :

1. Corn shows a higher digestibility than any other grain tested. 2. Wheat bran shows a low digesti-

bility and at present prices is not an economical feed. A mixture of equal parts early,

fine cut clover and corn meal is mo digestible and a more economical feed than bran.

4. India wheat compares favorably with oats as a grain for fowls. 5. The ether extract of wheat has a low digestible coefficient.

6. Crude fibre was but very slight-digested and evidently is of but little use in a ration for poultry ex-cept to give bulkiness.

7. The mixing of about seven per cent. of bone ash with a ration consisting wholly of vegetable matter gave slightly higher average diges-tion coefficients than when the mixture was fed without it.

Beware of the Hen Lice

Among insects, lice are the greatest enemies of poultry, and their presence is one of the leading causes of poverty in their flesh. Complaint is constantly and their nesh. Complaint is constantly made that the fowls are fed sufficiently to keep them in good flesh, but that they are still peor. Such birds are they are still pcor. Such birds are frequently examined for insects with-out the discovery of any; but if the roosts and walls of the hen house are roosts and walls of the hen house are closely examined uncentable num-bers of insects will be found, awaiting the return of night for another at-tack upon the roosting fowls. The remedy lies in cleanliness. Poultry insects bread rapidly in un-

You try inserts oread rapidly in un-ventilated, seldom-cleaned poultry houses and in places where the birds perch at night. Spray the roosts, the nests, the walls, the cracks and the crevices with kerosene oil.

A Progressive Locality Like Yours Ought to Have a Telephone Service

Life is worth living in a progressive locality like yours, with well-kept farms, good churches and schools, and congenial neighbors. But life would be even more enjoyable if your district enjoyed telephone service.

It's true you have got along well without the telephone, but once you have enjoyed its conveniences and benefits you will never do without it. In fact it's more of a necessity to the farmer than to the progressive city man. Our handsome booklet, "Canada and the Telephone," profusely illustrated by a leading artist, tells why the telephone is so necessary to the farmer.

Another book, our Bulletin No. 2. gives complete information regarding the building, equipping and operation of an up-to-date rural telephone system.

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FARM AND DAIRY

(Continued from page 6)

sprayed with hot lime whitewash to which had been added some crude car-bolic.

All of the more valuable cows which An of the more valuable cows which reacted, that is, gave the character-istic rise in temperature after injec-tion which denotes the presence of tuberculosis, were placed in a stable by themselves, and there were enough of them to justify putting separate men in charge. in charge.

Common Sense in Cattle Stables the carcasses subjected to expert inspection. Some carcasses were con demned and some were passed as fit for human food.

for human food. The animals which showed no re-actions were placed in stables by them-solves, and kept entirely separate from the cther herd. Calves born in the diseased herd are removed immediately and fed up-on milk from healthy cows. The wilk from the diseased herd is

The milk from the diseased herd is sterilized before using.

men in charge. A few of the less valuable animals thich reacted were slaughtered, and units after they are six months old.

				results :
Date of Test	No. of inimals tested	No. of healthy animals	No. of diseased	animals Per cent. of disease
Spring of 1909. Fall of 1909	47	$\frac{34}{42}$	$40 \\ 5$	54 % 10.6 %
Spring of 1910. Fall of 1910		$46 \\ 65$	3	6.19

In explanation of the table it should be stated that in the first test, the whole herd was tested except calves under six months. The figures given

for subsequent tests represent only animals which had previously passed the test, scgether with such calves as had become old enough during the in-terral to have the test applied. It is worth of special note that in the second diseased mothers, and the second diseased mothers, and the second diseased the test. It further passed the test. It further reactions will occur in this herd, there heifters are the least the such are extremely enounging, and go to show when by enoung dise the subser-losis is righted as a contagious dis-ease and is treated as such.



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FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Company, Limited.

CHER DOM

1. FARM AND DAIRY is published every Thursday. It is the official organ of the Firliab Columbia, Manitoha, Bastern and Quebec Dairymen's Associations, and of the Canadian Holstein, Arynchire, and Jor-soy Cattle Breeders' Associations. J. SUBSCHPTION PRICE, SLOB A react a year, For all sountries, except Canada and Great Britain, add 56 for postage. A year's subacription free for a olab of two in a ENMITACES should be made by SERVITACES and be made by a subacription for the sub-action of the subacription for the sub-tion of the subacription for the subacription for the sub-st ENMITACES should be made by a subacription for the sub-st ENMITACES should be made by a subacription for the suba

new subscribers. 3. REMITIANCES should be made by Post Office or Money Order, or Registered Letter. On all checks add 20 cents for ex-change fee required at the banks.

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WE INVITE FARMERS to write us y agricultural topic. We are alw ased to receive practical articles.

CIRCULATION STATEMENT

CIRCULATION STATEMENT The paid subscriptions to Farm and Darty esceed 5,500. The actual circulation of each issue, including copies of the by in arrears, and annuple copies, varies from 5,000 to 16,500 copies. No subscrip-tions are Locepted at less than the full do not contain any dead circulation. Sworm detailed statements of the circu-lation of the paper, showing its distribu-tion by countries and evolves, will be mind our pervertering bulley.

OUR PROTECTIVE POLICY

URANNEL THE OR PROTECTIVE POLICY UR PROTECTIVE POLICY We want the readers of Parm and Dairy to feel that they can deal with our ac-tion of the policy of the policy of the set. Should any subsultant to our columns only the most reliable advertise are should any subsultant the se-centres from any of our advertisers, we will investigate the circumstances fully. Blouid we find reason would be the advertiser and the policy of the set of the set alightent degree, we will discontinue immed-itative the policy of the set of the set of the paper. Thus we will not only pro-teer the set of the set of the set we will capose them through the solutions of the paper. Thus we will not only pro-teer the set of the set of the set must be made to Parm and Dairy within one weak from the date of any unsati-fate of the paper. In order to the advertiser is advertised. In order to the advertisers in order to the advertiser of any unsati-fate of the set of a set of any unsati-fate of the set of a set of the set of the set of the set of the set of any unsati-fate of the set of advertisers. In order to the advertisers of a set of any unsati-fate of the set of advertised the set of the set of the set of the set of advertisers. In order to the advertisers of a set of advertisers of the set of advertisers of the the advertisers of advertisers. In order to the advertisers of advertisers of the set of the set of the set of the the set of advertisers of the set of the set of the set of the the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of the set of the set of the the set of the set of

FARM AND DAIRY PETERBORO, ONT.

WIDER MARKETS FOR OUR FRUIT

Through the instrumentality of cooperative societies for the packing and marketing of fruit, improved methods of orchard cultivation, and through spraying, the fruit industry in Eastern Canada each year is becoming more and more profitable to careful growers. The area of land in Eastern Canada suitable for orchard setting is very extensive and the fruit growers located thereon can compete with any country in the world in the production of first-class fruit. Wider markets would greatly promote a rapid extension of the fruit industry in Eastern Canada.

Of all possible markets, from the standpoint of our Eastern fruitmen, that of the United States is the most desirable. The cities of the Eastern States consume immense quantities cf fruit and the cost of transportation to United States markets is much less than to the markets of Western Can-

forced by tariff regulations to ship our fruit.

Speaking before the Government at Ottawa, Jas. E. Johnson, president of the Norfolk Fruit Growers' Association claimed that free trade in fruit would mean 50 cents more a barrel for Ontario apples. Mr. Johnson speaks with authority gained from experience since last year the association of which he is manager shipped 6,000 barrels of apples to the United States. The duty on Canadian apples going into the United States at the present time is 75 cents per barrel. On United States apples coming into Canada, the duty is 40 cents. We ought to have equal duties or better still, complete reciprocity in fruit. Tariff sentiment on both sides of the line is ripe for such a move.

THE OTTAWA WINTER FAIR

Next week the farmers of Eastern Ontario and Quebec will have in Ottawa, on the occasion of the Eastern Ontario Live Stock and Poultry Show, educational opportunities of great value and which should be grasped. The Ottawa Winter Fair has now become an institution well worthy of support and attendance and the people who in recent years have attended this show have come away well satisfied.

The Show last year was a great improvement over all previous events cf the kind ever held in Ottawa. In spite of unfavorable weather, the paid admissions last year were almost 100 per cent. greater than they were the year before. There was, considering the show as a whole, a distinct improvement in the number of entries. in the quality of the stock shown, and in the general interest manifested. The event this year bids fair to make a new record. The poultry show is, with the exception of the one at Guelph, the largest held in Canada. The exhibit of horses adds much to the life and interest of the show, while prominent speakers, who will give addresses in the lecture room, will give instruction of great practical value.

Those readers of Farm and Dairy whe are in a position to attend will serve their best interests by taking advantage of the educational opportunities offered by the exhibits and addresses in connection with this Eastern Ontario Winter Live Stock Show.

CONSERVATION ON THE FARM

The amount of wealth that is wasted each year on farms from the loss of fertility in the proper care. of manure, improper methods of cultivation, neglect of weeds, and failure to take advantage of modern ways of doing things, is enormous. rifteen per cent. of the feeding value cf corn is lost on all farms where the silo is not used. Think of the labor which is lost in milking 3,000 pound cows to say nothing of the labor of feeding and caring for them! The same amount of labor might just as well be expended in milking a 7,000 or 8,000 pound cow with much greater profit.

Conservation of national resources

men, and of late has come in for a however, in tormenting the speakers great deal of discussion in the public press. The importance of the subject merits all the attention it receives. And it applies right on the farm. There are greater chances for conservation on the farm than in any other line of industrial enterprise. Conservation is a very important problem, and conservation on the farm is a most important part of that problem. We farmers need to practice more conservation.

ASTOUNDING REVELATIONS

Fancy keeping seven cows for 12 months to make the magnificent profit of \$11.20! Fancy a man working eight hours of labor for one cent! Fancy one good cow in an ordinary farmer's herd that makes as much profit as 42 of the poor ones! But these are facts, not fancy. They are statements of actual facts and comprise some of the astounding revelations which were given to the public by Chas. F. Whitley, who has charge of Dairy Records for the Department of Agriculture at Ottawa, and whose address in part as given at Perth is published on page 5 of Farm and Dairy this week.

The facts that have been discovered and brought to light by Mr. Whitley, through the work of the Cow Testing Associations, should be the last argument required to convince every man who keeps a cow that he should know whether or not that ccw returns a profit and how much profit.

Mr. Whitley states that some patrons are keeping twice as many and in some cases three times as many cows as their neighbors to, obtain even less milk. The loss of time and energy in connection with keeping these pcor cows is figured out by Mr. Whitley and is given on page five. Read his address. Then start with this new season of 1911 resolved that the poor cow must go. And set about making her go from your herd.

With modesty characteristic of himself, Prof. Geo. E. Day in addressing the Eastern Ontario Dairymen at

Perth last week, an-Common nounced the fact that Sense he had no desire to be eccentric in choosing a

title for his paper, "Common Sense in the Dairy Stable." He talked commcn sense all right and we reproduce his address in full on page four this week for the benefit of the thousands of Farm and Dairy readers not at the convention, as well as for those who were at Perth and heard the Professor speak. It will profit every dairyman in Canada to read and reread Professor Day's address and to act upon the common sense statements therein set forth.

The Farmers' Institutes this year are producing their usual crop of smart fellows. These "Smart smart fellows as a general rule are not noted Alecks" as being the best farm-

ers in the section nor have they ever proved themselves to be any wiser Read again our Protective Policy on ada or to Europe where we are now is occupying the attention of states than other mortals. They do delight, the editorial page.

January 12, 1911.

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with uncalled-for questions and provoking laughter at their expense when in all probability the speaker has forgotten more than they ever knew. Questions asked in the proper spirit are always to be encouraged. Smart Aleck men, however, will spoil the best of meetings with their ill-timed interjections.

The building of Dreadnoughts, which in the space of 10 or 12 years a the most are antiquated

Dreadnoughts and out of date, is tovs. Farms day the greatest economic waste in the world.

Demonstration farms, showing the agriculturist how to make two blades of grass grow where one formerly grew. are among the greatest educational factors of the age. The price of one Dreadnought would establish 1,000 demonstration farms worth \$10,000 each. Which is the more important?

The extra start, which the fall calves receive is a strong argument for having cows freshen in the fall rather than in spring.

Fall Calves Calves can be made to are best thrive much better in a comfortable stable in

the winter than in hot summer weather, when they are tormented with flies or are suffering from excessive heat. Furthermore, in winter time one has more time to look after the calves, and when spring comes they are strong and vigorous and in a condition to make the best use of the pasture grasses The thrift of the calf has much to do with the worth of the cow. This point should not be overlooked when comparing the relative merits of winter versus summer dairying.

To form an association and ship produce, whether it be eggs or apples, on the cooperative plan,

Don't Expect does not mean that we too Much are to immediately receive increased prices.

Before we can get the most satisfactory returns, we must build up a repu tation and prove that we have the goods of a quality to demand an increased price. Once a cooperative society is well started, it is no trouble to hold old members and get new ones. The hard days for the cooperative society and the days in which most of them fail, are right at the start before a reputation has been established and before the association is showing tra advantages in dollars and cents. Do not expect too much at first.

Col. Cody, better known as "Buffalo Bill," said: "Advertising is a mighty good thing, but you We Protect must have what you ad-Subscribers vertise." There are some unscrupulous ad-

vertisers who advertise goods for sale that they have no intention of providing or who do not provide the quality that they represent in their advertisements. Such advertisers cannot buy space in Farm and Dairy for we believe in protecting our subscribers.

January 12, 1911.

FREE TRADE IN DAIRY PRODUCTS ADVOCATED

At the thirty-fourth annual con-vention held in Porth last week, the following resclution was carried unani-mously: "Moved by J. W. Hyat, West Lake, Ont., seconded by Jas. R. Anderson of Mountain View, that the Deminion Government be respect-fully but most strongly urged in the negotiations now pending Letween Canada and the States, to provide for complete reciprocal trade in dairy products." products

for computer recipical state in dary products." It had been announced through the pices before the convention that this pices before the convention that this understain. The fact this up for con-uderstain. The fact this up for con-sidered a gainst the motion broken dairymen of Eastern Ontario are practically unanimous on this subject. The only objection to the securing of free trade in dairy preducts that was raised came out after the reso-lution hal been carried and was voic-cial Treasurer, and by Hon. James Duf, Minister of Agricultare, for Ontario.

Ontario. Mr. A. A. Ayer, a Montreal Ex-porter, also said a little against it. Col. Matheson showed himself to be utterly unacquainted with the subject Col. Matheson showed himself to be utterly uncquainted with the subject when he expressed a fear, while speaking at the ovening session on Wednesday, that were tree trade se-cured it would lead to the Canadian markets being flooded with cheap United States cheese. In view of the fact that cheese all last season was worth four and five cents a pound wholesale more in the United States than it was in Canada this expression of opinicn caused a general and wholesale more in the United States than it was a number of dairymen pre-sent who would have liked to have pre-sent who would have liked to have the following afternoon, Dr. C. A. Pub-wer, of Picton, pointed on that as following faternoon, or market for their cheese they were more market for the interace who doeling one market for

members of the association that as long as they had only one market for their cheese they were more or less at a disadvantage when dealing with the a disadvantage when dealing with the free far. For that reason he advocated free far. For that reason he advocated free far. For that reason he advocated the theory of the second second to the United States market. Dr. Publow had not heard what Col. Matheson was stituing in the au-dience. Some cne innocently in-formed Dr. Pullow that it had been intimated that free trade would result in the admission of cheap United States cheese to the Canadian methods. "Where a said that," Dr. Publow had be admission of cheap United States cheese to the Canadian methods." THE DISCUSSION

THE DISCUSSION

THE DISCUSSION The subject was introduced by John W. Hyati, who spoke of the larger issue which is vital to the interests of "fory diryman, that is the market end of agricuture. Farmers market their products as units instead of as organ-ized bodies and against them are op-posed some of the greatest combines that the world has ever seen. In 1907 milk and cream were shipped to the United States to the value of \$24.00. In 1910, as a result of freer trade the shipments amounted to \$1.250,000. The weakcet link in dairy-ing was 85 cent milk. Canadian dairymen received a little

The second milks and the second milks of the second milks. Canadian dairymen received a little less than 11 cents for cheese last year, while in the States cheese sold for 15 cents. In Montreal butter was worth 24 cents wholesale, in New York 35 cents and 40 cents. It was therefore in the interests of Canadian dairymen that they should have freer trade with the States. In the States there are only 30 people in every 100 engaged in raising food products.

In Ontario there are 40. The States, therefore, offers better markets for dairy products than can be found in Canada

MORE FROM HIS COWS

MORE FROM HIS COWS "In the past," asid Mr. James R. Anderson, of Mountain Yiew, "we farmers have allowed men like Col. Sam Hughes to do the talking for us. Henedorth we are going to do our own talking. We are going to be united. I have 35 cows and if I had been able last year to sell my cheese in the United States to the same ad-vantage that some of our Canadian vantage that some of our Canadian dairymen have been selling their cream, my income for six months would have been \$3 a day greater than

would have been \$\$ a day greater than is was." "I know of three lots of cheese from the Bay of Quinte District that were sold in the United States after paying six cents a peund duty," said Mr. S. Blakley, of Cherry Valley, "which noticed the farmers better returns than cheese sent to Great Britain. Had three Leen free trade the pro-ducer might have had most of that six cents."

"We need more markets for our cheese," said Mr. J. B. Wilson, of Gananoque. "These markets can be found in the United States. Once we can improve our markets the price of milk will advance and cheese-making will preve more profitable. We darry-men should follow the example of the grain growers in the West and unite in demanding tariff and other changes that will promote our interests."

OPPOSITION FROM THE MINISTER

opposition FROM THE MINISTER At the public meeting Thursday evening Hon. James Duft, expressed what was taken by many to represent the attitude of the Ontaric Govern-ment on this question, when he spoke against free trade.

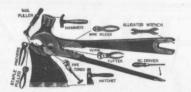
against free trade. "we are all Canadians," said Mr. Duff, "and our interests are more or less intertwined, and we cannot hurt one part of the commonwealth with-out nijuring the other. For this rea-son people abould be careful at this juncture lest we commit ourselyes to avore trade relationships, shot juncture lest we commit ourselves to sever trade relationships that we would feel sorry for afterwards. Did it ever occur to you that the home market means more to Ontario, to the people of Canada in fact, than any other market? seventy-nee or 80 per cent. of our products are used by our own people. Surely this is important. What has made the home market? Towns like Perth and cities like to-ronto. Practically half the popula-tion are consumers of products grown on the farmes of Ontario. The home market has made much mense for the farmers, and it is worthy of note that farmers, and it is worthy of note that we can only export 25 per cent. of our farm products.

OWE THE UNITED STATES NOTHING

OWE THE UNITED STATES NOTHING 'I only speak of this, in order that the people before commuting them-solves, sheuld figure out how it will affect them. We are under no com-pliments to the enviable position we occupy to-day has not come about by any of their help. I believe this great country of ours was builded by the National Policy of Sir John Mac-donald, and continued by Sir Wilfrid Laurier. Now, the States have a tariff fence 42 rails high while ours is only 27. Our seven millions of people have bought from the States \$1,600,000,000, while their innety millions have purbought from the States \$1,400,000,000, while their innets millions have pur-chased from us just half of what we bought from them. These things should be thought over before we com-mit ourselves to anything to-day, in view of the treatment accorded us by the States. Why is our cheese not going to the States 2 it is no fault of curs. If the States want our cheese it is their part to lower the daty, but we should not put forth an effort. We can each go on in splendid rivalry, (Continued on page 12)



Our Hustration Show, the Many Uses this Hatch-i can be put to. It is an every-redy tool, in which is combined ten different distinct tools. It is a compact, clean-cut combination tool, scientifically made and balanced. The Hammer part is well balanced, and has just the right weight for heavy driving. The Hatchet is tempered to a degree of perfection, and will carry a which it will be put while the Alligator Wrench is fashioned after the regular type, and will be put which a Alligator Wrench is fashioned after the regular type, and will be out which the Alligator Wrench is fashioned after the regular type, and will be found a very useful tool. By means of the Pipe Tongs thereas the set of the set of the set of the set of the tools and the set of the set of the Pinehers. Wire Cutter, staple Puller and Wire Splicer, are all worked out or scientific principles, and are as perfect as they can be made. The Hatchet is a tool chest full of the finest grade of tools all in compact form. Any tool which dre can always be found which loss of time. These ten tools would cast or-you would run chances of getting some of the tools imperfectly made.



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 50 per cent greater than usual. As consequence cows have been more prefitable during the past two or three months than for many years during the same period, simply because they could satisfy their appendix and the more constant to folde and the same period.

 Plain Truths About Productien
 Too little attention is paid to prefitable during the same been more prefitable during the same period, simply because they could satisfy their appendix and the same bereide and the same ber

A great deal more cream could be produced in almost every locality than is at present produced without increasing the number of cews, but by keeping better cows and feeding them better-even better feeding of the present shock would increase and the present stock would increase pro-duction. This fact has been fully demonstrated since the beginning of September this fall. In most locali-ties feed has been abundant and the supply of cream has been from 30 to

LEARN TO

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pare time or \$2,0 do as well.

t new catalog and Taxidermy Maga-

the importance and necessity of pro-viding sufficient feed to keep up the flow of milk through the fall. They find that there is nothing which fills the bill like the silo together with a supply of alfalfa, which an ever-in-creasing number of farmers are now growing.

Instruction in Eastern Creameries

G. G. Publor, Kingston, Ort. The number of creameries in East-ern Ontario under our charge this season was 25. Mr. Singleton, my assistant, acted as instructor and in-apecter of 12 of these, the others be-ing looked after by the others be-ning looked after by the others hap-mend to be beauty for the theory hap-during the season 25. Guil, a reserved pened to be located. They received during the season 25 full day visits and 84 call visits, making a total of 150 visits in all. The creameries are reported as being in a clean sani-tary condition and well equipped for the manufacture of good butter, their weakest point being their refrigera-

PATRONS VISITED

The number of creamery patrons visited by the instructors was 190, the instructors going out on the cream routes of the different cream-



eries. While the cream hauler was cries. While the cream hauler was getting his cream weighed and sampl-ed, the instructor had an opportunity of talking with the patron regarding the care of the cream and separator. This results in a considerable amount of good, particularly where the cream is leing delivered too thin, and of poor flavor, which are the most com-mon defect. In precisionly accord poor havor, which are the most com-mon defects. In practically every case the instructors were well re-ceived and the patrons expressed their appreciation of the instruction given.

LOW AVERAGE PER COW While we have been unable to ob-While we have been unable to ob-tain full statistics, it would appear, from the reports that we have re-ceived, that the number of cows from which cream was supplied to the the total amount of butter for the six menths from May 1st to Novem-ber 1st was about 1,12,000 1bs., showing an average of alightly over 100 1bs. per cow. The average per cent. of fat in the cream delivered was 28 nor cent. as commared with

cent. of fat in the cream genveroed was 28 per cent., as compared with 27 per cent. last season. The number of tests made for moisture in the butter was 173. They showed the average percentage of moisture contained to be 14.06 per cent the lowest heims 10 per cent. and the highest 15½ per cent. The quality of the butter was re-

and quanty of the outer was re-ported as being superior to that of last season, but there is still room for greater improvement, particularly in the flavor.

ly in the navor. Practically none of the butter was exported, as it was required for home consumption. The home trade home ccnsumption. The home trade is being catered to by the factorymen more and more, owing to the high prices realized.

Protection for Dairymen

Arrangements have been made to hold a Dairy Convention in the City Hall, Ottawa, on Wednesday, Jan-uary 18, commencing at 1.30 p.m. for the purpose of discussion of the purpose of the p uary 18, commencing at 1.30 p.m. for the purpose of discussing the advis-ability of waiting on the Dominion Gevernment and asking that the same protection given the Western wheat grower be extended to the Canadian farmer engaged in marketing cheese and that the avatom of weighting and that the system of weighing cheese in Montreal be changed so that allowances for over-weight will be taken into consideration in striking taken into consideration in striking the average. The Government will also be asked to appoint an official weigher. At present the farmers have to accept the weights of an appointee of the Produce Merchants Association. This requires the one

This convention is going to Le one of the big events in the history cf the Canadian dairymen and every farmer interested in eliminating the losses suffered through failures and short weights is urged to attend and help make it a suc

Free Trade in Dairy Produce

(Continued from page 11) but let us Canadians maint allegiance to the British flag. maintain our

Mr. A. Ayer claimed that there is not as great a difference between United States and Canadian prices for cheese as quotations might seem to indicate as frequently all that would be necessary to cause a slump in prices on the leading United States markets would be a consignment of Canadian cheese.

THE GOVERNMENT GRANT

The overant MERT GRAFT As a result of the attitude of the Minister of Agriculture and of the Provincial Treasurer, the question was asked privately during the convention what the association would do were the Government to take exception to the Government to take exception to the members discussing such a ques-tion as free trade in dairy products as the Government might claim the right to dc because of its grant of \$2,500 a year to the association. An editor of Farm and Dairy consulted January 12, 1911.



- CHEESEMAKER with twelve years' experi-ence, wishes a situation. Best of refer-ences. Would prefer making cheese in summer and butter in winter.-A. W. Gamble, Fordwich, Ont.
- WANTED Boys and girls to receive 25 beautiful post cards free for selling 10 packages of needles at 5 cents each. Write to-day.—Premium Syndicate, Sparta, Ont.
- CREAMERY FOR SALE Good paying creamery with large comfortable house, for sale at a low figure; in Alberta's best dairying district. For further informa-tion, write P. O. Box I, Didsbury, Alta.
- ONE THOUSAND printed Butter Wrappers for One Dollar.-McMullen Printing Com-pany. London. Ont.
- SALE OR EXCHANGE One registered Jersoy Bull. One year old. Will sell at a bargain, or exchange for Jersoy Bull "Calf" or Heifer-L. M. Kemerer, 24 Chestnut Park Read, Toronto.

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\$50.00 were imposed, amounting in all to \$2,350.

G. G. Publow, Kingston, Ont. The weakest point in the equipment of the cheese factories in Eastern Ontario is still the lack cf proper facilities for controling the temperature of the curing rooms. There are only 55 factories out of the total 935 that are properly equipped in this respect. This is a matter that is descring of much greater attention on the part of factorymen than it receives, as the having of these conditions makes it possible to turn out cheese of more uniform quality form month to month, and besides it gives the factoryman an independence in many ways which he dces not otherwise enjoy.

With the large majority of the fac-tories in a satisfactory condition, and realizing the great need for better sanitary conditions under which the milk is produced, we made a special appeal this past season to a large number of the patrons to a second could be accomplished in this respect. Tures were 3,071 patrons personally visited by the instructors with this object in view, and of this number the instructors succeeded in having 637 whitewash their stables. With the large majority of the fac-

QUALITY OF THE CHEESE

Regarding the quality of the cheese, notwithstanding the critical inspection which they have received, the May and June make were re ported as the best in the history of the trade, but as soon as the warm weather set in, complaints began to be received regarding flavor, texture, and closeness. While there is a marked improve-

While there is a marked improve-ment in the condition in which the milk is being delivered at the fac-tories, nevertheless, during the warm weather there is quite a large per-centage of the milk that shows a lack of proper care, as from 4,153 curd tests made by the instructors 2,136 samples proved to be over-ripe or tarbox in the state of the state state of the st

There is an increase in the number There is an increase in the number of factories that practice the pas-teurising of the whey, there being 125 doing so this past season as compared with 63 the season before. I The average acidity of the pasteur-used whey was .34 per cent, while that of the unpasteurized was 1.08 m_{er} cent. per cent.

WHEY BUTTER

WHEY BUTTER Regarding the manufacture of whey butter, I have to report that there were 133 factories engaged in it this season as compared with 119 lags eason, and the total amount of whey butter manufactured from May lst to November 1st was 429,022 lbs. A new feature introduced into scene of our factories this season, and one which from present indications, is likely to increase, was the shipping of erram and case to United States. In all, 41 factories were sngaged in this work at the close of the season.

MILK TAMPERED WITH

MILK TANTERED WITH The testing of milk for deteriors. tion was also conducted by the in-structors, and they reported 137 samples as showing evidence of hav-ing been tampered with. After a caroful investigation 90 of these cases the samples of Canadian cheese. The testing the sample of the sample of the sample of the the sample of Canadian cheese. "An extract from Mr. Glendining's pre-add fines ranging from \$5.00 to

FARM AND DAIRY

Cheese Department The second Instruction in Eastern Ontario, 1910 G. G. Publor, Kingston, Ont. The weakest point in the equipment of the cheese factories in East-ment of the cheese factories in Eastof the dairy products.

of the dairy products. SINTARY CONNTIONS There has been a very great im-provement in the sanitary condition of the cheese factories. Of the total number of 938 regularly visited, only 80 were reported as leing at times in a rather usenitary condition, and we have been assured that the ma-jority of these will make the neces-ority of these will make the neces-programmers in another year. There were is not provide the order in the second second second second second second second second the second second second second second the second second

There we fast new factories built during the past year and 581 made improvements in buildings or plant, the estimated expenditure, including new buildings being \$123,260.00.

Our Declining Cheese Exports*

Cur Declining Cheese Exports* Hy. Glendinning, Ontario Co., Ont. We frequently hear of the decline of the dairy industry in Canada and our bessened exports are cited as proof of the fact that dairying is on the decline. Such statements should not be accepted without investiga-tion. The exports of cheese from Montreal for the present year during the season of navigation are 17,000 boxes of cheese abaed of last year. The export of cream to the United States to the end of November last was equivalent to 150,000 boxes of cheese. This latter abould properly be added to our exports for the year. The home censumption of milk but-ter, cheese and ice cream is increas-ing at the rate of over \$2,000,000

ing at the rate of over \$2,000.000 is year. There is unfortunately a tendency to measure the progress of the dairy industry by the export tade. The export trade represents only about 25 per cent. of our total preduction of milk. There is now a very large quantity of both butter and cheeses going to the western provinces. Only a few years ago the western dairy-men were shipping both butter and cheese to foreign markets. They have trebled and quadrupled their output in the meantime, but heme consumption has increased even more rapidly. The home consumption in the east is growing very rapidly. rapidly. The home consumption in the east is growing very rapidly. Such cities as Montreal and Toronto alone require an enormously increas-ed supply of dairy preducts every year to satisfy their needs.

ECONOMICAL GOODS

ECONOMICAL GOODS The high product of mests have caus-ed our people to aff mests have caus-ed our people to aff mests have caus-more to butter and the chasper ind of more value as a food than mast. Butter and cheese also pesses the advantage of being always ready for the table as they require no corking. Reference to the decline in the Canadian cheese trade by Old Coun-try merchants are often being given a wrong interpretation. The impres-sion a given that Canadian trade is declining Leause of the increase in the New Zealand imports. The re-verse is true. The decline in the ex-ports of Canadian cheese is the thing the New Zealand imports. The re-verse is true. The decline in the ex-ports of Canadian cheese is the thing that encouraged the shipments from New Zealand, and the shipments from that country to Great Britain are just about equal to the decline in the exports of Canadian cheese.

Promote Cow Testing Work Having been confined to his house for nearly two weeks with a bad at-tack of bronchitis, which threatens to develop into pneumonia, Mr. J. A Ruddick, the Dairy Commissioner, was unable to attend the convention at Perth last week. His assistant, Mr. W. W. Moore, who is Chief of the Markets Division in the Dairy pranch of the Department, took his place on the programme. In a let-ter to Mr. Glendinning, the Presi-der Mr. Ruddick said: ""hope that the cow testing work "In the we its share of attention in the work its share of attention of motion of that matter for the somideration of that matter for the somideration of the seems strange the section represented by your part faster Canada. It seems strange the should be so, because no the social means and depends so largely on dairying. **Promote Cow Testing Work** A SHARPLES TUBULAR **Cream Separator**

largely on dairying. FURTHER PROMOTION OF TESTING

FURTHER PROMOTION OF TESTING "In this connection I am pleased to announce that the Minister has approved of a plan for further pro-motion of this work, which will en-able us to place a man in charge of a district covered by a grup of four or five cheese factores. The man will keen a hores and second his grubule ur ure cheese factories. The main will keep a horse and spend his whole time among the patrons of these fac-tories, so as to get into touch with every one of them. We shall con-tinue cur present propaganda, and hope to extend the work all along the line."





will last a lifetime if properly used. It uses very little ol. It requires ew. If any, repairs. It last so loog mut takes so little to keep it in gradient of the solution of the solution in prochase prices and every. This gives, the passon is that a solution. Later than, entire-built, Contains of the solution of the valid solution.

You can buy a (so-called) cheap separator, but the average life of such machines is about one year. Then you can buy another the next year, and so on until you have pent several times the

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THE SHARPLES SEPARATOR CO.,



THEN we climb to Heaven, 'tis on the rounds of love to men. ...

The Road to Providence (Copyrighted) MARIA THOMPSON DAVIESS (Continued from last week.)

SYNOPSIS OF THE ROAD TO PROVIDENCE

SYNOPSIS OF THE ROAD TO PROVIDENCE Mrs. Mayberry. a country physician's widow. Hiving near the town of Provi-dence, has taken into her home Elinora Wingate, a beautiful young woman and a famous singer who has mysteriously lost her voice. Mrs. Mayberry is much lov-ed and respected throughout the countryside both for her goodness of heart and for the skill with which sho treats minor libs. Her son Tom is a rising dector in the distribution of the short of the short of the skill short of the ther.' Mayberry's remedies. In learning to mix a humorous preference for "Mo-ther" Mayberry's remedies. In learning to mix a humorous has he has the at any time since the loss of her voice compleheng the contracts.

Miss Wingate with the scissors sus-pended over the bit of pink muslin which matched exactly her own ruff-

led skirts. "Yes'm! Pattie Hover wored shoe-tops all winter and now she's got foct-

dresses and Buck Peavey for a beau." "Oh, I see," said the singer lady as she smiled down into the eager little face. "Do you think-er, beaux are-are desirable, Eliza?" "Yes'm, I do," answered the bud of a woman, as she drew nearer and

said with an expression of one be-stowing a confidence. "When I'm let down to my feet I'm going to have Doctor Tom for my beau, if you don't get him first."

I'm sure you needn't worry about that, Eliza," Miss Wingate hastened to exclaim with a rising colcr. wouldn't interfere with your plans for the world-if I could.

"Well, you take him if you can thim," answered Eliza generously; get him, "somebody'll grow up by that time for me. But he couldn't make you take oil, could he?" she asked doubtfully, the memory of yesterday's es-cape lurking in her mind and explain-

cape lurking in her mind and explain-ing her most unforminine generosity. Miss Wingste eved her for a mo-ment with mirth fairly dancing over her face, "Yes," she said with a laugh, "I believe he could!" "Elinory, child," said Mother as she came cut from the front hall, "here we are a half hour late with this cream, and both of us under pro-mise solemn to Tom to have it down by four o'clock. "Liza honey, how" by four o'clock. the baby?" 'Liza, honey, how's

"He have got a new toptooth and throwed up onct this morning," an-swered Eliza in a practical tone of

"Dearie me," said Mother anxiousfor the Pike teether had up to this time been the Doctor's prize pa-tient. "I wonder if your Maw re-

tient. "I wonder if your Maw re-membered the line water faithful?" "I expect the forget ti, for she was whipping Susie for sassing Aunt Prissy, and Bud for saying fool," an-swered Eliza, not at all hesitating to lay bare the iniquities cf her fam-ily circle. ily circle. "I'm sorry they did like that,"

said Mother real concern at the news of such delinquencies.

"Yes'm ,Susie told Aunt Prissy Mis'

at any time since the loss of her voice compelled her to cancel her contracts. **(P)** LESA'S Miss Elinory, make ti Pervey said she were assetting her cap a little bit longer, 'cause I for Mr. Hoover and it made Bud substant her to have a beau,' be indicause he fights 'lias Hoever and sought the small mether, as she anxiet, and cause he fights 'lias Hoever and shift, watched the measuring of the line of the second source of the second sou

As she spoke, Mother rose to greet Deacon Bostick who had turned in the front gate and got as far up the front walk as the second snowball front gate and gave second snowball bush. The Deacon was tail, lean, bent and snow-crowned, with bright old eyes that rested in a beneficition on the group on the porch that his fine old smile confirmed. By the hand he led a tiny boy who was clad in a long nondescript garment and topped off he a queer red fes, pulled down off by a queer red fez, pulled down over a crop of yellow curls, a strange little exotic against the homely lack-ground cf Mother Mayberry's lilac bushes.

"Sister Mayberry," said the deacon as he paused at the foot of the steps, "this is Martin Luther Hathaway who was left at my house this morn who was left at my house this morn-ing by the Circuit Rider, as he came through from Springfield on as way to Flat Rock, to be delivered to you, along with his letter. I trust his ar-rival is not unexpected to you." "No, indeed, Deacon, I was hoping for him though not exactly expecting him. A menth ago while you was sick, our missionary society had news of a missionary and his wife down at Springfield who wanted to go. no

of a missionary and his wife down at Springfield who wanted to go up to Chicagy to study some more about some heathen matter, and cculdn't guite make it with two children. My cousin Seliny Lue down to the Bluff have took the little girl and we sent five dollars and a letter saying to Come to Mother Mayberry, scnny," and Mother sat down on the lowest step and stretched out her arms to the little ward of the church militant.

Martin Luther's big blue eyes, which were set in his head like those of a Raphael cherub, looked out from under a huge yellow curl that fell over his forehead, straight into Moth-

over his forchead, straight into Moth-er's gray ones for a moment, and sticking his pink thumb into his meuth, he sidled into here embrace with a little sigh of relief. "Eat some, thank ma'am, please," he whispered into here are by way of a return of the introduction. His little mother tongue had evidently suffered a slight twist by his birth and soiourn in a foreign country, but it

little heart." answered Mother as she removed the foz and ruffled up the damp curls. "Run fetch the tea-cake bucket from the kitchen safe, 'Liza, and won't you come sit dcwn, Dea-con?"

"No, thank you, Sister," answored the Dencon with a glance of real re-gret at the comfortable rocker Miss Wingate had hastened to draw for-ward into a sunny but sheltered cor-ner of the norch "U" on my way to take tea with Sister Pratt. I'm to meet Mrs. Bostick there. How's to meet Mrs. Bostick there. How's the throat, child?" And his smile up at the singer lady was one of the most sympathetic interest.

"Better, thank you, I think," said Miss Wingate answering both question and smile. How well you are looking te-day, Deacon!"

looking tc-day, Deacon'' "Why, I'm made over new by that boy of a Doctor," said the Deacon, fairly beauing with enthusiasm. "Your cure will be only a matter of time, a matter of time, my dear-Squire Tut to the contrary," he added with a chuckle.

"There, bless my heart, if my ears ain't heard two testimenials to Tom Mayberry a'l in one minute!" exain't heard two testimenials to Mayberry a'll in one minute!" claimed Mother with a deligh laugh. "Have a cake, won't Deacon?" she asked, offering a delightful ke, won't you. you the bucket.

She then established Eliza and the She then established Eliza and the small stranger on the edge of the stops, with an admonition as to the disposal of the crumbs over .cn to the grass, and filled both pairs of hands with the crip disse. Elica spread the end of her short blue calico skirt over Martin Luther's chubby knees, and they both proceeded to est into the immerciaed makin with the utmost they both proceeded to eat into the improvised napkin with the utmost comradeship. Miss Wingate had strollcomradeship. Miss Wingate has atrou-ed down to the gate with the Dea-con and had paused on the way to decorate the buttonhole of his shiny old coat with a bit of the white like nodding over the wall. "Liza, child," said Mother as she glanced at Martin Luther with a contemplative eye, "when you're done cating run over and ask your

glanced at Martin Luther with a contemplative eye, "when you're done eating run over and ask your Maw to seend me a pair of Billys britches and a shirt. No, maybe young Ea's be Letter, and bring em and Martin Luther on back to the kitchen to me." With which she dis-puration to be the house, leaving the uppedie invoid the tossi alone. And in an investibly reast alone.

And in an incredibly short time the last crumb, even those rescued from the skirt had disappeared and Eliza had led Martin Luther down the walk across the Road and around the corner of the Pike cottage, while the Deacon still lingered talking to Miss Wingate at the gate. Eliza had tak-Wingate at the gate. Eliza had tak-en upon herself, with her usual gen-eralship, the development of Mother Mayberry's plan for the arraying of the young stranger in what Provi-dence would consider a civilized garb.

And for some minutes Miss Wingate stood leaning over the top rail of the low gate idly watching a group of Pratts, Turners, Mosbeys, Hoovers and Pikes playing a mystericus game which necessitated wild dashes across game, a line drawn down the middle of the Road in the white dust, shrill cries of capture and frequent change of bin capture and frequent change or base. The day had been a long sun-shiny one, full of absorbing interests and as she stood drinking in the per-fume from a spray of lika she had broken to choose the bit for the Deaone and outdown the beat of th of tea-cakes, the printing of four cakes of Lutter, the simmering of a large pan of horehound syrup and the exsuffered a slight wist by his birth and citement of pouring it into the family sojourn in a foreign country, but it bottles that Mother was filling against served to express the normal cordi-tion of all inhabitants to boy-land. "Of course he's hungry, bless his ing of a most exciting pic, that had

January 12, 1911.

been concocted entirely by herself from a jar of peaches and frilled from a jar of peaches and frilled around with the utmost regard for from a just on utmost regard for its artistic appearance, to which could be added the triumph of the long-tailed pink gown for the daugh-ter of young Eliza, had kept her busy and with a quick smile she had to admit to herself, happy. Indeed the remembrance of the rapid disap-pearance of the pie and Doctor May-berry's blush when, after he had eaten two-thirds of it, his mother had in-form ed him of the authorship, Jrought a positive glow of pleasure to ber cheeks. Such a serious gentle, skila positive glow of pleasure to get cheeks. Such a serious, gentle, skil-ful young Doctor as he was-and "a perfect dear" she went as far as ad-mitting to herself, this time with a low laugh.

And as if her pondering cn his virtues had had power to bring a materialization, suddenly Doctor Tom stood in front of her on the other stood in front of her on the other side of the gate. He had come from up the Road while abe had been looking down in the other direction, and in his hand he held a spray of purple illaes which he had broken from a large bush that hung over the fence from the Pratt yard into the Road and also spread itself a yard or two into Hoover territory.

"Aren't they lovely and plum?" she asked, as she took the bunch he offered and laid the purple flowers against the white ones ahe held in her hand. "These are so much darker than Mrs. Mayberry's purple ones. I wender why?"

I wonder why?" "Some years they bloom lighter than Mother's and other years still than Mother's ange of the mysteries," he answered as he leaned against the gate-post and down at her with a smile. looked He was down at her with a smile. He was tall, and strong, and forceful, with a clean-cut young face which was lit by Mcther Mayberry's very own black-lashed, sereme gray ores, and his very evident air of a man of affairs had much of the charm of Mother Mayberry's rustic dignity. His serge cost, blue shirt and soft gray the had a devided cur of combine His serge coat, blue shirt and soft gray tie had a decided cut of sophis tication and were worn with a most worldly grace that was yet strangely harmonious with his surroundings. For with all of his distinctions in appearance and attainments, as a man he struck no discord when con-trasted with Mr. Pike's shirt-sleeved outternut-trousers butternut-trousers personality, and he seemed but the flowering of Buck he seemed but the nowering. The Peavey's stcreelothes ambitions. The accord of it all struck Miss gate so forcibly that unconse she gave voice to the feeling. unconsciously

gate so furthery voice to the feeling. "How at home you are in all this-this."" she paused and raised her eves to his with a hint of help-lessness to express herself within

"Simple life," he supplied with a smile that held a bit of banter. "It's nct so simple as one would

think to balance a pie plate on one hand and cut around it with a knife haud and cut around it with a knife so the edges aron't jagged-to be all consumed within the hour," she have swered with spirit, rising to the slight challenge in his voice and smile. "And there are other most complicated things I have discovered that-

But just here she was interrupted by a sally from arcund the corner of the Pike house which streamed out across the Road, headed precisely in their direction. Eliza was in the lead and held little teether swung perilously across one slender hip, while she clasped Martin Luther's chubb, fingers in her own hand. And behold, the transformation of the young stranger was complete be-yond belief! His yellow thatch was crowned by a straw hat, which was circled by a straw hat, which was circled by a brand new shoestring, though it gaped across the crown to let out a peeping curl. *(Continued next week*) But just here she was interrupted

(Continued next week.)

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January 12, 1911.

7, 8. Men admire bravery. History is re-plete with records of events in which men have readily gone to their death because of the inspiration afforded by the examples of their leaders. Christ was the bravest man that ever lived, but death there are mon who soon to

because of the inspiration anorded oy the examples of their leaders. Christ was the bravest man that ever lived. And yet there are men who seem to think that it would be effeninate on their part to confess Christ as their leader and were they to acknewledge W is all things as their guide. When all things as their guide. The form and the second of the meekness of Christ or nucle of the meekness of the of the love of His long auf-fering, we do nucle of the meekness of the incidents recorded in curtext give some indication of His our text hem than their real rulers the Ro-mans. The scribes were corrupt. Fer hundreds of years they had taken ad-vantage of their office to haden down he common people with burdens that had become almost unlearable. They had created hundreds of meaningless rules about the chservance of the Sab-shah and forms of worship. These rules dealt with such trilling matters as the lighting of fires, the washing of dishes, the wearing of embroidery on clothes. Jews who brokes any of these man-made rules were held to fenders. These frequently had of-fenders against their laws put to death. Christ saw these things. He realized

teniors against their laws put to death. Christ saw these things. He realized that among the common people there was a great hunger and thirst after righteounses. He discorned the hy-poerizy of the scribes. In spite of their power He did nct cur text, He stood up in the audience of the people and denounced them. He showed that the scribes, instead of desiring to honor at sand to be given the chief honor at send that they made long prayers for olf that they made long prayers for olf that they made long thouse that was chiefed these same things. It was Chiefed the design days must have related these same things. It was chiefed to de-nounce the scribes publicly, in their low at some less that they the common people heard him gladly. "Ébrist realized perfectly what He

common people heard him gladly, "Affrist realised perfectly what He was doing. He know that the scriles would hate Him and that they would strive to kill Him. And even when they took up stones sgain to stone Him (St. John 10, 31) He was not afraid. Instead, He calmly faced them and asked them to explain the reasons for their actions.

and the main asked them to explain the second to the secon

plant. For some insects wasn went with soapy water, using a small brush to remove the scale if necessary. Wash with clear water shortly after using soap sclution. Apply the solution to the under side of the leaves.

...

The Upward Look The Courage of Christ The addince of all the series, came cut against to series of the series. In accessory water, the series of the seri

cross His courage and love centinued unto the end. Should we not all be proud of such a leader? Should we not all delight to own Him as Lerd? Let us do so; in our homes, in our churches, among our friends, everywhere. Without thrusting our views on any one let us let every one know that we are "Out and Out" on Christ's side in battle against in...-ILN. Litte bott Huune Plants

Hints about House Plants

Hints about House Plants Wa. Hunt, O.A.C., Guejph, Oft Water pot plants only when they medit, then water them throughly. When the soil begins to get dry and powdery on the surface, or when the pot is tapped with the fingers it emits a ringing, sound-the plant requires water. Then give sufficient water so the soil begins of the source of the needed game withhold water until meded game withhold water until meded game withhold water until meded game without the source water. The water or water that has been exposed to air and sun if poss-ble for a day or two. The water source for pot plants in winter. Werntam bout 50 to 00 degrees. Never use ice cold spring water for pot plants in winter. We air from the top of the wind dow or from the top of the wind dow or from the top of the wind how or from the top of the source linke only on mild, still day. Yes plants may sometimes be stod out of an hour or two, but the tempera-ure should be at least 50 degrees out-side. MONTE ATMOSFIEME

MOIST ATMOSPHERE

MOIST ATMOSTHERE A most atmosphere is one of the main essentials to achieve success with plants. Place pans or saucors of wa-ter on the heaters or registers. As this eraporates it causes a moisture very beneficial to plants. Saucers of water placed under the plants are beneficial or a steaming kettle or pot on the steve is a great holp. SPRATING PLANTS

when pinced under the pinnes are beneficial or a steaming kettle or pot on the stove is a great help. Glaucous or glavars-distribution of the planta, Boston forms, calls illies, etc., should have the leaves aponged with clean water once-every week, with an occasa and spray-ing at the sink. This should be dono on fine warm days if possible. Hir-sute or rough-leaved plants, such as the rest begoins, gloxinias, etc., should not be sprinkled over the foliage. When the test hears and the solid over the foliage. When the test hears and the roots and the soil worn out or esthaused, a little fortilizer can be given. The soil should be moist, not dry or vary wet, when fortilizer is applied. There are several good plant foods sold at large seed stores. Sterlingworth Plant Tablets or Bonora are both good. The best fortilizer for a small box sufficient for a good collection of sufficient for built. This is the best fortilizer for pot plants. About half at acounce of nitrate of soda a cod fertilizer for pot plants. About half at acounce of nitrate of soda sufficient Begonia and coleus must not be given toor was the share of the given toor was the station of the station of colling the sufficient. Begonia and coleus must not be given toor was the station of the station of colling the station of the station of colling the station of the station of colling the station and a taccupful every two weeks for a plant in a six inch pot will be sufficient. Hegonia station colling the station of the station of the station of colling the station of the station of the station of colling the station of the station of the station of colling the station of the station of the station of colling the station of the station of the station of colling the station of the station of the station of colling the station of the station of the station of the station of colling the station of the station

vents dampness and ground air from rising into the house

rising into the house. If the house is set close to the ground the cellar windows must be wide enough to compensate for their lack in height, and must be set cppo-site each other in order to insure good draft. A method that is semetimes used is to dig out a space in front of a window, making a little area which, laid in either brick or atone, may be whitewashed and reflect light into the cellar. It takes allows of sinking the cellar, window deeper and chtaining better ventilation. better ventilation.

better ventilation. The walls and floor of the cellar should be laid in Portland cement to keep out the moisture and the walls and ceiling should be whitewashed twice a year. Even if a cellar is kept very clean, the eartchy smell of vegetables that arises from it when it is well stecked is not agreeable—an-other reason for good ventilation and frequent airing. A separate room A modern Cellar. A cellar that meets modern requires ments must be dug in ground that is well drained either naturally or by artificial means. It must be remen-artificial means. It must be remen-ing shelf; and broad shelves should be built high enough so that barrels may be shoved under them.



GRIMM MAN'F'G CO., LIMITED

58 Wellington St., MONTREAL, QUE.

15



Brown Bread

Brown Bread One pint sour milk, 1 cup molasses —may be part baking syrup and part table syrup, or all baking syrup, 1½ cups rasins—fever will do, cut them in amal picces, dates are also good, 1 teaspoorful soda, little salt, 3½ cups Graham flour. Steam for two hours in buttered (1 hb.) baking pewder cans, with tops on. Then re-move tops and bake in quick oven for 15 minutes. Half fill each can only with the batter. This should for 15 minutes. Half fill each can only with the batter. This should be full when done. Three or four cans are required for this amount. They come out in nice brown rolls.-Miss A. Ferguson, York Cc., Ont.

INDIAN PUDDING BOILED.

One qt. of milk, one pt. of meal, 5 tablesp. of molasses, 2 tablesp. of such chopped fine. Seal dthe milk and pour it over the meal; add the other in-gredients; put the pudding into mold or bag and boil A hours. Hot maple molasses and hot hours. molasses and butter are eaten with this pudding.

BROWN BETTY.

BROWN INFITY. In a qi, pudding dish arrange al-ternate layers of sliced apples and bread erumls; season each layer with bread erumls; season each layer with bread ground einnamon, cloves and alspice. When the dish is full, pour over it $\frac{1}{5}$ cupful each of moiasses and water mixed; cover the top with erumbs. Place the dish in a pan containing hot water and bake for $\frac{2}{3}$ of an hour or until apples are soft. Serve with cream. Raisins or elopped almonds improve the pud-ding.

TAPIOCA BAKED.

Soak 1 cup of tapicca over night, cook soft in water. Place a few pared and cored apples, and preserved quinces in a baking dish, pour over them the hot tapicca and bake 2 hours. Serve with cream.

PLAIN PUDDING SAUCE

Melt 1 heaping tablesp. of butter; add 2 tablesp. of flour and 1% cups hot water. When thick add 1% cups of brown sugar, stir until sugar is melted and add a little nutmeg before surving. serving.

HAM OMELET

Separate the yolks from the whites of 4 eggs. Beat the yolks until thick and lemon c/oreq, then add % teaspoonful of sait, a few grains of pepper and 4 tablespoon-fuls of hot water. Beat the whites of the eggs until stiff and dry, then cut and fold them into the first mixture until they have taken on all the until they have taken up all the mixture. Now cut and fold into the mixture one fourth of a cupful of fine-ly chopped cold boiled ham. Heat an omelet pan and grease the sides and bottom, using one tablespoonful of butter. Turn in the mixture, spread evenly and place on the range spread eveniy and place on the range where it will cook slowly, occasionally turning the pan, that the omelet may brown evenly. When well "puffed," and delicately browned underneath place the pan on the centre grate of place the pan on the centre grate of the oven to finish cooking the top, Fold, turn cn a hot platter, and pour around one and one half cup-fuls of white sauce.

SUET PUDDING NO. 2.

One cup chopped suet; 3 cups bread Une cup chopped suet; 3 cups bread erumbs, 1 cup molasses, 1 cups sour milk, 1 teasp. soda, ½ teasp. salt, 1 cup chopped raisins, also citron, or-ange peel and other fruits to taste, 1 nutmeg, 1 teasp. each cinnamon, elovee, ¾ cup four. Put together in order mentioned and steam 3 hours. Serve with lemon sauce.

FARM AND DAIRY

OUR HOME CLUB

CHURCH GOING

CHURCH GOING There is a certain class of popple who will let Sabbath after Sab-bati. pass by and never think of going to church. Then there is another class who go if the weather is just exactly to their liking and still a third class, who perhaps, go occasionally till they are married, and that is the last we hear of them as far as church is concerned. Sad state of aflairs is it not? We all know that of affairs is it not? We all know that sooner or later, we will go the way whence we will not return, and yet, how careless we will become. Some-times the pastor blames it on the reg-ular attempts is a solution of the solution of the solution. times the pastor blannes it on the reg-ular attendants for not making an extra effort to bring those careless ones along. The people put the blanne on the pastor. Take, for ex-maple, a young man, he goes to Sab-rhad yologi till he is sixteen. After that yologi till he is sixteen. After in six words set Huim in church once in six words as the final the set of in six months. His parents may go just when the weather is to their liking. Who is to blame? Some, on the other hand, for such a habit of going to church and take such an interest in it that, to be disappointed is worse than any other disappointment. It matters very little what denomination

we belong to. I surely think we shoul! we belong to. I surely think we show a give this matter a little more sericus thought than we do and try to re redy this sad state of affairs.---"Aunt Jane."

THE DAILY PAPER

Woman suffrage and local option Woman subrage and need operations of are two very important questions of the day. I would like to suggest a third. It is adcminable the horrid details the daily papers dole out of every crime and scandal that happen from ocean to ocean.

There are just as demoralizing ef-fects through the power of suggestion to receptive susceptible minds as come through the evils of drink. The one caters to the mental life, the other to the appetite. Chuaren rush from school to the Court room at noon hour and four c'clock and the lessons taught at school are not the best re-membered ones that day. lessons

Also the daily paper with its awful reports and sensational headings is a blight in every home it enters where there are growing children and miniature minds. It is a pity that

SEND US 750 heavier by return and post paid this bountiful title ores. It made with till us ward, bound on a 1 based on the post of the respinger hadd with any return the post of the post of the second of the second of the respinger hadd with any return the post dras to relationship ward, dras and second of the second enhanced, ward, drass could be the second enhanced, ward, drass could be the second enhanced and of the second of the second ward and a second of the ward and a second of the second of the second ward and a second of the second of the second ward of the second of the second of the second ward of the second of the second of the second second of the second of the second of the second second of the second of the second of the second second of the seco to an ad or this form of the postage. all for only The and 10c postage. STANPABD GARMENT CO. Foote Block, London, Ord-

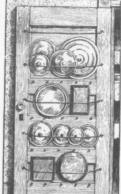
HOME JOURNAL Ew Party reading

enough good wholesome material cannot be found to fill the columns without solling it with such hidecus stuff. Something of an unmention-able nature happened not long ago aid it was criming the suit. and it was certainly through the suggestion of a similar occurrence New York a year or two ago when cur New fork a year or two ago when cur papers were cranmed with the re-hearsal of the long trial. Is there not an editor with courage enough to give us a good clean "Daily" for our homes? One that we will not have to homes? One that we will not have to lose purposely or hide away lest the young people in our homes read it. Let the "Home Club" start a crusade against it.—"Aunt Faithie." * * *

Handy Rack for Covers and Tins

Pot covers and cake tins take up a good deal of room in a kitchen closet. It is always the cne on the bottom of the pile which you need, and when you remove it, the rest come clatter.

With three or four eight-cent door into three or four eight-cent door springs and a few brass hooks, conven-ient racks can be made on the inside of the kitchen closet door. The hooks are placed about four inches apart along the lower edge of



the panels, for the tins to rest upon, and the springs are stretched across just above the centre of the panels.— The Hired Girl.

* * *

Don't forget seeing your friends and having them join in for a club of subscribers to Farm and Dairy.



January 12, 1911.

The Sewing Room Falters 10 certs such. Order by uni-ted to the the certain sector of the the sector of the sector SIX GORED SKIRT, 6828.



The skirt made with a double box plait at the front and back is new and greater liked at this season. liked at this season. This model includes plaited side portions that provide com-fortable flare, while the seams over the hips mean the snug fit necessary to necessary

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fit necessary to smartness. Material required for medium size is 6 yds. 24 or 27, 3 yds. 44 or 52 in. wide. The width of the skirt at yds. when the plats

the lower edge is 1% yds. when the plaits are pressed flat. The pattern is cut for a 24, 26, 28, 30 and 2 in. waist and will be mailed for 10 cts.

A

The weight closed to the left of the front is exceedingly fashionable this scason and is very pret-ty and generally becoming. This one can be lined or unlined and is adapted to silk and wool mater ials as well as to weahable ones. It will be found equally desirable for the gown and for the gown and for the waist to be worn with an odd skirt or tailored suit. The frill of lace gives a pretty feminine tonch, but is not nec-cesary and if a plain ed and is adapted to

effect is wanted it can be omitted er effect is wanted it can be omnised. Material required for medium size is 3%yds. 24 or 27, 2% yds. 36 or 2 yds. 44 in. wide 2% yds. of banding and 1 yd. of lace. The pattern is cut for 55, 33, 40, 42 and 44 in. bust, and will be mailed for 10 cts.

FANCY WAIST, 6878

Here is a girl's aist that includes waist that includes all the latest feat-ures. The main por-tions are cut in one with the short sleeves. It is finished with a fancy collar, and there is a center-front portion that allows effective use of contrasting mater-

For the 16 yr. size For the 15 yr. size will be required 1% yds. 24 or 27 in. wide, 1 yd. 36 or 44 in. wide, with 2% yds. 18 in. wide for the cen-ter front and under sleeves.

the lattern is cut for misses of 14, 16 - m MISSES' SIX GORED SKIRT, 6880



The

gore is trimmed with contrasting material and is cut on the For the 16 yr. size will be required 4¹/₂ yds. of material 24 or

27 in. wide, 3¼ yds. 36 or 2% yds 44 in. wide, with 1 yd. of contrasting material

The pattern is cut for girls of 14, 16 and 18 yrs ...



TOTT.

***** om y num-ra age; waists, ress all

nade with ade with x plait at and back greats s season. includes includes portions de com-re, while over the the snug sary to

required size is 6 7, 3 yds. vide. The skirt at he plaits

8, 30 and or 10 cts.

of the ceedingly this seathis sea-ery pret-rally be-bis one or unlin-apted to l mater as to nes. It equally or the for the worn skirt or . The gives a eminine not nec-a plain-ted. te is 3¹/₄ in, wide tece. 2 and 44 cts.

girl's ncludes t feat-in por-in one short short collar, center-that We use mater-

r. size red 1% wide, 44 in. yds. 18 re cenunder

14, 16 -pr-6880

i skirt liked. a box-at the ain at front. front. d with aterial a the

r. size ed 4¼ 1 24 or 4 yds. 44 in. 7d. of terial

l6 and 15.

January 12, 1911.

********************** OUR FARMERS' CLUB GRENVILLE CO., ONT.

GRENVILLE Co., 0NT. PUESCOTT. Dec. 25-Some of our lead-ing farmers have been growing clover seed. It was threaded by common mills with good success. It has been the general im-pression that we could not grow seed in the East, but we have proved that to be a pression that measures of these few far-mers has measure to decide docing a Bood many farmers to decide monier. et with an average yield.-8. W. C.

NORTHHUMBERLAND CO., ONT.

EDVILLE, Jan. 4.-Our winter has set in quite early here, with continued cold wea-ther, sometimes below serve. We have had good sleighing for some time. Our mail carrier on the route from Colborne to Edville has been troubled of late by the snow driftes.-B. II.

WELLINGTON CO., ONT.

WELLINGTON CO., ONT. PERGUS, Dec. 30.— We had an early win-ter and are having cold stormy weather for the time of year. The snow is at least 14 inches on the level. Grain is cheap at wheat 42 cents, and barley of scenar. Bay, is \$10 to \$11 a. ton. Hogs are still low in price, being \$6.40 a. ewt. Butter is 32 cents, and fresh laid eggs 30 cents.—W. A. M.

A. M. MOUNT FOREST, Jan. 5.—Markets are becoming stronger. There has been a large amount of grain sold this sear owing to the good crops and the shortage of live steek. Nock looks well: Feed is plentiful this winter as the above of a plentiful this winter as the above of the steep of the meetings will commence next week with Hy. (Bendinning, Manila, as speaker,— C. N.

GREY CO., ONT.

GREY CO., ONT. RAVENNA, Jan. 5-The snow in from two to four feet deep. All kinds of stock look well, Farmers seem to have an abundance of straw and hay. Brage are birlingin from 30 cents to 80 cents. Butter is 32 cents. Beef and hogs are higher. Farmers have been busy handing their winter supply of wood. The month of December has been the coldest that has been known for some years.-C. P. OKTERPIC. ON DAT.

OXFORD CO., ONT.

OXFORD CO., OXY. GOLSRIE, Dec. 23.--We had a very heavy snorfall today. Stock is doing well this winter. A number of the farmers are in to winter dairying, some separating their milk at home and drawing the erean to the creamery at Bacahville. Others are making butter at home and selling it on the market, realizing more for it than they would at the creamery. Feed is plen-tiful. We expect a Bural Mail Delivery have the selling it on the market, realizing more for distribu-tion of the selling it on the selling it of the selling it on the market, realizing more for its than they would at the creamery. Feed is plen-tiful. We expect a Bural Mail Delivery have the selling it of the selling its few days without any mail. County are for dam uniteing and matters are the chief topics just now.-A. M. McD.

HOLSTEIN NEWS

HOLSTEIN NEWS In connection with illustration No. 5 on page 14 section with illustration No. 5 on Section 2014 and 2014 and 2014 and 2014 and 2014 section 2014 and 2014 and 2014 and 2014 and 2014 by Mr. 7. H. Dent, of Woodstock, Ont., and in connection with her it was said that for the three days its the grave 1515 pounds of milh testing 35 per cent of butter fat, totalling 2029. It his being point the other fat less than on-half point helow Idinine Pauline box Kol, which cow was awarded first place.

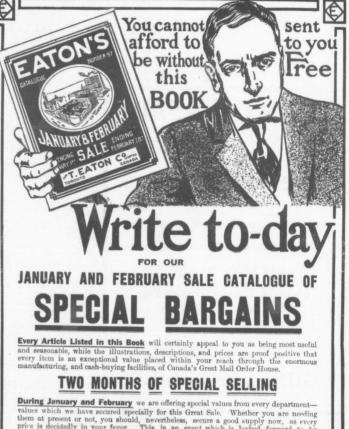
SALE OF LYNDALE HOLSTEINS

SALE OF LYNDALE HOLSTEINS In spite of inclement weather the Hol-stein sake of Brown Bros, at Lyn, Ont, was marked by large crowds and spirited blue ding. This was probably the greatest sale drop of the spite state of the spite state Prockville district. It is granitying to learn that Brown Bros, reserved some 20 head and will est great states for large attellow aske will be a great encour-ting the spite states of the future in hereding lines.

That good dairy stock is becoming more and more appreciated by Eastern Ontario dairymen, and that dairy breeders are

FARM AND DAIRY

willing to pay good money for stock of the year-old heifer, \$460; for a 1910 heifer ealt, | average price of \$117.59.3 yearling heifers producing kind, is proven by a summary \$155; for a 1920 heil ealt, \$270. The unithout is brought \$255, an average price of \$122.59, a price of \$122.50, a survey price of \$251.50, a survey price of \$251.50, a survey price of \$250.50, a s



them at present or not secured spectrally for this oreal safe. Whether you are hereing them at present or not, you should, nevertheless, secure a good supply now, as every price is decidedly in your favor. This is an event which is looked forward to by thousands of Canada's shrewdest buyers. If you have never taken advantage of it in the past-do so now.

The Prompt Delivery of Goods which characterizes the EATON Mail Order Service is one of the many leading features of this Big Store. Most goods are shipped on the same day that we receive your order, there being no unnecessary delay whatever.

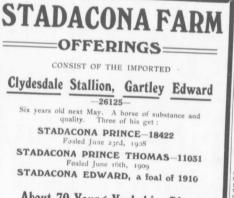
You are Absolutely Protected when you send your order to EATON'S, as our liberal guarantee allow you to return any article with which you are not thoroughly satisfied in every respect. In fact we ask you to return any such article, as we are perfectly willing to exchange it for you, or refund your money in full and pay all transportation charges. When you buy from **EATON'S**, remember that your money is not ours unless you are pleased with every phase of the transaction.



FARM AND DAIRY

MARKET REVIEW AND FORECAST

TORONTO, MONDAY, Jan. 9th, 1911-by the latest. tora of affairs, for, with leading industries in Canada and the Uni-site of affairs, for, with leading industries in Canada and the Uni-site of affairs, for, with leading industries in Canada and the Uni-site of affairs, for, with the sourd of conjecture afloar regard-ing the source of the source of the source of the present in present in presenting the source of the source of the four farmers, Westerners responding, railing like to see something done in regard plements. In local circles, business in all plements. In local circles, business in all tranches is steady in character. Call money in Toronto rules at 5% to 6



About 70 Young Yorkshire Pigs

of both sexes, sired by MAPLE GROVE CHAMPION-20102-Champion Yorkshire Boar at Toronto in 1907. These Pigs range in age from three to six weeks. Prices reasonable.

All this stock must be disposed of as the Farm is sold. Write or Come to Stadacona Farm.

GUS. LANGELIER CAP ROUGE, QUEBEC.

Proprietor

CLYDE HORSES. SHORTHORN CATTLE-Young stock for sale at all times.-S. F. Redmond, Peterboro, Ont.

CL YDESDALES-Many by that great sire, Acme, (Imp.) Write us, E. M. Holtby, Manchester P.O., and G.T.E. Station: Myrtie, C.P.E. Long Distance Phone.

BREEDER'S DIRECTORY

ands under this head inserted at the rate of \$4.00 a line per year. No sand accepted under two lines, nor for less than six months, or 26 insertions

SUNNYSIDE HOLSTEINS. — Young stock, all ages.—J. M. Montle & Son, Stanstead, Quebee. A. W. Walker, Utics. Ont.

CLYDESDALE HORSES, SHORTHORN CAT. TLE-Large selection of best stock. Prices reasonable--Smith & Richardson, breed-ars and importers, Columbus, Ont.

ORMSEY GRANGE STOCK FARM. ORMS-TOWN, P. OUEBEC. - Importation and breeding of high class Clydeedales a spec-ialty. Special importations will be made. --Duncan McEachran. HAMPSHIRE PIGS - Canada's champion herd. Boar herd headers. Sows three months and under.-Hastings Bros. Cross-hill, Ont.

SPRINGROOK HOLSTEINS AND TAM. WORTHS.-High class stock, choice breed-the. Present offerings. Fresh and in calf. Young balls. Fire Tamworth boars from Julis. Fire tamworth boars from Julis. Foreign, Cont.

c. to 61 c.; feed barley, 48 c. to 49 c.; malt-ing barley, 56 c. to 57 c. a bushel; American yellow corn, No. 3, 51c to 51% a bushel on track, Toronto; buckwheat, 47 c. a

On the farmers' market oats are selling at 38 c.; peas, 75 c.; barley, 60 c. to 61 c.; rye, 58c to 60c; buckwheat, 48c to 50c a bushel.

a bushel. Montreal dealers quote the following prices for grains: Canada Western dats, No. 2, 39%: No. 3, 36% of the duebe white oats, No. 2, 37% c.; No. 5, 36% of the barley, d c. to 44% c.; American yellow corn, No. 3, 57% c. to 58 c. a bushel.

POFATOES AND BEANS

Traders brisk in potatoes, and local quo-tations are as follow: 55 c. to 90 c. a bag in a jobbing way, and 70 c. to 75 c. a bag in ear lots. Local dealers quote three pound pickers at \$1.90 to \$2.00 a bushel.

pound pickers at \$1.50 to \$2.00 a bashed. On the farmers' market, postates are selling at \$90 to \$1.00 a bag. Montreal advices state that there is a steady de-mand for pointoes and prices are firm. bag in scoutism are selling at \$2% c a bag maximum and a bag in a job-bag way. Three pound a bag in a job-bing to \$1.65 a bushel for three pound pickers.

EGGS AND POULTRY

EGGS AND POULTRY Ergs will continue high in price. Strict-ly new hill continue high in price. Strict-ly new hill continue to the strict storage ergs, at 270 to 58 a dozen: cold storage ergs, at 270 to 186 a dozen. To the farrest market new hild ergs are selling at 55 c. a dozen. Local poultry dealers give the following quotations: Chickens, 120 to 100 to 150 c. 100 c.; reserved. 12 to 150 c. a b.; Hve weight on the strict, b. to 15 c. a b.; Hve weight on the strict of the strict dressed chickens are selling at 15 c. to 17 c.; fowi, 14 c. to 15 c.; ducks, 15 c. to 17 c. gress, 17 c. to 18 c.; turkeys, 34 c. to 25 c. a b.;

a D. In Montreal there is a viry active do-mand for eggs and wholesale quatations for new laid are 56e to 57e a dozen; electa, 25 e. and cold storage stock, 27 e. 0.5 e. 6 dozen. Tre a triffe easier, and chickens are quoted at 12 c. to 15 c. ford, lo e. to 13 c. utrkeys, 19 e. to 15 c. ford, 10 e. to 13 c. utrkeys, 19 e. to 17 e a bb e. to 13 c. Utrkeys, 19 e. to 17 e a bb.

DAIRY PRODUCE

DARY PRODUCE The butter market is quiet, but prices the standy at the following quotations: the standy at the following quotations: the standy of the standy of the standy prints, 21 e. the standy stands of the standy to 20:: and ordinary guarator prints, 24 to 20:: and ordinary guarator prints, 26 and 19: a h. Large cheese are in and 19: a h. Large cheese are in the standy of the standy of the standy the standy of the standy of the standy the standy of the standy of the standy in the framewing and the standy of the standy the standy of the standy of the standy of the standy in the standy of the standy of the standy of the standy in the standy of the standy of the standy of the standy in the standy of the standy of the standy of the standy the standy of the standy of the standy of the standy of the standy standy of the standy standy of the standy of th

MILL FEEDS

MULL FEEDS There is no change in the price of mill feds on the local market; Manitoba bran is quoted at 819; short 821 a ton in bage; Ontario bran 820; and short 822 a ton in bage on track. Toronto. Moriza a ton in bage are as follows: Manitoba bran 819 or 820 a ton; shorts 821 to 822 a ton in bage 820 track, Montreal. Ontario bran, 819 or 820 track, Montreal. ton in bages on track, Montreal. SEFDS SEEDS

SED5 Local dealers quote prices for seeda as follows: No. 1 alisite, \$7.25 to \$7.50; No. 2. \$5.50 to \$7. No. 3, \$5.50 to \$5.25; No. 1, red. clover, \$5.50 to \$7. No. 3, \$6.56 Ab abab. Mentireal prices for seeda are quoted as follows: Alske, \$6.50 to \$8, and red clover, \$7 to \$9, according to grades. HAY AND STRAW

HAY AND STRAW There is an active demand for choice quality on the local market and dealers quote first class timothy at \$12.50 to \$13 a ton; No. 2, \$9 to \$10.80 a ton in car lots; On the farmers" to \$15 a ton; On the farmers" to \$15 a ton; clover and is selling at \$17 to \$16 a ton; clover and

RECEIPTS OF LIVE STOCK AT UNION STOCK YARDS FOR PAST SIX YEARS Year Cars 4,414 Cattle Sheep 5.902 1905 Hogs 50,442 Calves 1,072 Horse 77,828 88,808 91,156 1906 4 805 468 30,088 59,616 1907 12 021 4.618 16.094 25.237 53.972 834 661 1908 293 5,957 2.214 70,730 1909 60.774 3 097 1.093 114,808 1910 59.331 165,586 50,778 6,982 Increase 1910 over 1909. 56.342 2.363 6.531 6.140 2.370 Decrease 28,132 960 842

clover mixed, \$12 to \$14 a ton; straw in bundles, \$15 a ton and loose straw, \$8 a ton In Montreal there is a large supply ton In Montreal there is a large snoply of hay on hand, and although three is a iseen domand for hay of best quality prices on most grades have declined with the down of the export business is quiete with the downward tendency of the market give the following quotations: Choice slope other, Silt of Silo, No. 28 100 5810.58 clov-er and clover mixed, 55.9 to \$7 a ton.

WOOL

WOOL The wool market is quiet. Local quota-tions are: Washed fleeces, 21c to 22c; un-washed fleeces, 13c to 14c; rejects, 15c a lb. Montreal prices are: Washed fleeces, 25 2 27c; unwashed fleeces, 15c to 18c a lb.

HIDES

Trade in hides is steady, and local quo-tations are. No. 1. impected steers and cows. 9%c: No. 2, 8%c: No. 3, 71.2% a ha, at country points. Califokins, 12% to 12%c. skins, 65% to 75% each; horse hides, 82.75 to 85; horse hair, 30%c; tallow, 5%c to 6%c a hb.

HORSE MARKET

HORSE MARKET There has been a fairly steady demand for horses and prices have riled high, at much the away have been of-tered during the past week. This for any horses, \$200 to \$400: medium, \$200 draught horses, \$210 to \$200; addite horses, \$350 to \$250: serviceably sound horses, \$30 to \$200.

\$100. In Montreal prices have ruled high, and purchases have not been extraordinarily large in consequence. Sales have been made at the following sums: Heavy \$200 million \$200 million \$200 purchases have not been extraordinarily large in cousequence. Sales have been made at the following sums: Heavy draught horses, \$300 to \$350; medium, \$200 to \$275; saddle horses, \$400 to \$475, service-ably sound horses, \$75 to \$100 each.

LIVE STOCK

LIVE STOCK The return from after-Xmaps stagnation to normal activity is apparent in the stock yrards. The quality of the cattle of-fered has not The quality of the cattle of-best had been offered f with the stagna-tist of the stagnature of the stagnature this is not to be wondered in the stagnature after Acide believes for sails. Stockers and grindgrs were searce and mileh cover and guickly at excellent prices. Ross are going alsolve downwards in price Challense give the following quotations-Challense give the following quotations-Challense give the following quotations-thm, \$25: ordinary quality, \$450 to \$63; med-cet.

wt. Butcher cattle, choice-\$5.75 to \$6: medi-m, \$5 to \$5.50; ordinary quality, \$3.50 to Feeders-85 to \$5.50

Produces—35 to 8550 Ricckers—452 to 85. Mich cows—Choice, 875 to 865: spring-ers and medium quality rows, 840 to 870: ordinary quality, 820 to 855. Calves—45 to 0.550. Calves—45 to 8550. Hogs—Lo.b. 85.09 fed and watered, 86.85 a cwt.

MONTREAL HOG MARKET

Montreal, Saturday, January 7, 1911. --The market for live hogs scored another dvance here owing to the keen demand advance here owing to the keen demand for the offerings, which are rather light this week. Selected lots sold at \$7.60 \$7.75 at ext, which all buyers active A further advance is looked for max week, unless supplies increase materially. Dress-ed hors are also firm. Fresh killed abattor stock is quoted at \$0.00 to \$80.75 to \$87.75 at ext., with country dressed at \$9.25 to \$87.75 at ext.

EXPORT BUTTER AND CHESE

EXPORT BUTTER AND CHESE Montreal, Saturday, January 7, 1911. — There is more toing in the cheese trade this weck buy from a Britain, which has in many cause for a Britain, which has in many cause for a Britain, which has in many cause for a start lease of nurgiation is to be recorded. As a cesult, holders are very firm in their views and in some cases prices have been marked up. A few cheese of finest quali-ty. September and October make, could be bought at about 11% but the general ask-ing price is 11% and 12% a but the inter-price being generally asked for colored

, 1911.

n: straw in straw, \$8 a arge supply there is a there is a ality prices 50c a ton. ving to the cet; dealers Choice tim-\$10.50; clova ton

ocal quota-to 22c; un-s, 16c a lb. eces, 2 = :o a lb.

local quo-steers and to a lb., at 13c; sheep ides, \$2.75 %c to 6%c

y demand l high, at riven last tiven last been of-y draught 0 to \$240: '5 to \$250: 0 to \$267: orses, \$150 s, \$50 to

nigh, and rdinarily tve been Heavy tum. \$200 service-

agnation in the attle of-t as the as trade tre were ters and ows and nd sold re going

tations 5: med-to \$5 a

: medi-\$3.50 to

spring-to \$70;

\$3 to 1. \$6.85

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January 12, 1911.

cheese, which are very scarce. The stock of cheese in the country was reduced by rhout 5,000 bases during the month of December, the shipments for the month being almost double the quantity shipped during the corresponding month the year before, and the stock still in store at the leginning of the New Year amounted to about 20,000 bases, the bulk of it being at about 24c a lb. for finest quality, but held goods are firm at 25c to $25\frac{1}{20}$ a lb.

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Fifty to one hundred dollars seems like a long price to give a man for a pure-bred dairy buil. But is it? Consider what that bull will make for you in the increased value and the superior milk production of his fendle necessary. A seed sure female progeny. A good, pure-bred dairy bull from high-producing ancestry, is worth, and can be made to pay splendid returns on many times the sum asked by the prominent breed-ers, who advertise in these live stock columns of Farm and Dairy.

and Dairy. Yes, quite true, you say; only there is another side to the question: I must get a new bull every two or three years to avoid inbreding on my young stock. The investment is larger than I feel like risking. My well-bred, high-priced dairy bull will not sell for beef and bring me what I paid for him. And you are right He will not. There are other farmers however-thousands of them not. There are other farmers however-thousands of them-in just such a situation as you. That bull of yours is good for many more years of service. Why not arrange a trade with another dairyman? Our adver-tising columns will help you do it

do it. A one-inch advertisement in Farm and Dairy will tell 10,-000 farmers of your bull you wish to trade. The ad. will cost you only 98 cents. Try this means of exchanging your bull or of selling him for his full value. Write us to-day and send in your advertisement value. V send in send in your advertisement that will do the trick.

in Montreal, and of this quantity more than one-half is owned in Great Britain, and is being held here subject to the order the owners

of the owners The butter market is steady with prac-tically no change in prices. There is a good demand from the local trade but the demand for shipment to the west has been very quiet for the past two weeks. Pairly large quantities however are going out of town in other directions. Fresh receipts are easy in price and can be picked up

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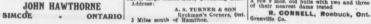
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