Issued Each Week-Only One Dollar A Year

VOL. XXXI.

NUMBER 2

# RURALHOME

PETERBORO, ONT.

JANUARY 11



CHOICE SPECIMENS OF A DAIRY BREED THAT THRIVES WHERE ANY OTHER WOULD STARVE

Their hardiness and vigor, which enable them to withstand the most severe conditions, have given the French-Canadian cattle a place peculiarly their own among the dairy cattle of Ganada. Originating in Quebec province 200 years ago, this purely Canadian breed is said to be better adapted to the climate and conditions that growing that province than other breeds. As economical producers of butter fat they rank high. At the Per-Neil marks of that province than other with the other dairy breed, they stood third. Under favorable conditions it is probable to their breeds would outclass them as dairy producers; but under hard conditions the French-Canadian cow is without an equal. The animals here illustrated were shown at the Ottawa Exhibition in 1911, where

DEVOTED TO BETTER FARMING AND SANADIAN GOUNTRY LIFE

# There is a Difference in CREAM SEPARATO

SOME farmers have an idea that all Cream Separators are alike. Because the machine they are using is not a success they conclude that there is not a better machine and that they will "just make it do for a while."



ing gears one pair bevel gears one pair spur gears, showing also the inclined intermediate shaft, a new and exclusive "Simplex"

There are many kinds of Cream separators, some are almost useless, some "pret-ty good," but there is only one make that will give entire satisfaction no matter how difficult the test. The "only" machine

# The Simplex Link-Blade

This is because it is the only machine having the LINK-BLADE Separating device and the SELF-CENTERING BOWL. These two features alone make the machine superior in construction to any other machine. But! there are other points of excellence about the machine that are just as important, with the result that the SIM-PLEX is a machine of life time-lasting value. Our new Booklet is brimful of Separator facts and is free for the asking.

# D. Derbyshire & Com

Head Office and Works: BROCKVILLE, ONT. ches: PETERBOROUGH, ONT. MONIREAL and QUEBEC, P. o.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

\$50,000,000 Just Half as Much as our great Dairy Industry!

Hene produce Prefits of 100 (and a second produced a revenue of the produced a revenue of the produced a revenue of the several hundred per cent on the investment.

Each week we recognise this very important industry. We give it a whole page workly. Then, each February-first issue in the month-out comes our Poultry Annala, bubly devote to Poultry.

The 8 2 of cour people who actually keep Poult. see a now looking forward to our

4th ANNUAL POULTRY NUMBER, to be out FEBRUARY 1st While our people are resulted the Poultry Number, Feb. 1st. and every time they refer to it during the next 385 days, that's the time for you to come before their notice Last Form Closes Saturday, January 27th. No increase in rates

Page, \$47.04; Half-Page, \$23.52; Quarter-Page, \$11.76

Adv. Dept.

FARM AND DAIRY

Peterboro, Ont.



THE FARMER FEEDS THEM ALL"--AND THEY ALL FATTEN OFF OF THE FARMER

Land speculators, monopolists, tariff protected interests, railway and express corporations and combines, thrive by forcing farmers, and the laboring classes in the cities, to pay excessive prices for necessities. This is why we have millionaires springing all over while the average farmer often finds it hard to make enis mer all over while the average farmer often finds it hard to make enis mer after people asi why 100,000 people have left the farms of Otaraio during the past 10 years! They say that we must help the "poor" farmer by giving him betteroads, and by teaching agriculture in our schools. Book! the two farmers shall do our own thinking. When we do we will soon find a means of dealing with those people who are growing fat at our expense. Read the series of articles on this subject now running in Farm and Dairy. Land speculators, monopolists, tariff protected interests, railway and

### DAIRY PRODUCTION IS STILL ON THE INCREASE

Exports of Butter and Cheese \$1,000,000 Ahead of 1910. An estimated Total Increase of \$2,000,000. Eastern Ontario Dairymen in Convention at Campbellfurd

AIRVING is going ahead in outlook for driving in Canada. Mr. Canada. In spite of the un-Ruddick considered excellent. There favorable conditions that exist will be no danger of over-production in many of the dairy districts for many years to come. favorable conditions that existed in many of the dairy districts of the Dominion last season, the Trade and Navigation Returns for the vear ending November 30, 1911. show an export trade in dairy products valued at 894.716,967, as compared with \$83,381,356 for the 12 months previous. The largest increase was in the export butter trademonths previous. The largest in-crease was in the export butter trade, the exports this year being valued at \$2,089,28°, as against \$823,386 in 1910. The increase in the export trade, however, does no give an ade-quate idea of the real progress dairy-ing is making. The home consump-tion of cheese, butter, milk, and increase at \$25,000.000, and increase at \$25,000.000, and An estimate of the total production for both home and export trade shows a total increase of \$2,000.000 over 1910. Such was the report of shows a total increase of same over 1910. Such was the report of Dairy Commissioner, J. A. Ruddick, at the annual convention of the Eastern Ontario Dairymen's Association, at Campbellford, on Wedness day to Friday of last week.

Mrs. Ruddick, in speaking of the export trade in cheese, laid particular stress on the necessity of providing better cool curing facilities in our factories. The advent of New Zealand cheese on the British market during our season of non-production has caused a more immediate consumption of Canadian cheese, and green cheese does not find as ready a market as if former years. The a market as in former years.

BETTER SALARIES FOR INSTRUCTORS

HETTER BALARIES FOR INSTRUCTORS
The resolution passed last year requesting that the salaries of dairy instructors be increased to \$1200 was again carried at the property of the salaries of t

salson, but this read \$1200.

read \$1200.

Since the last meeting of the Association, Mr. Jas. Whitton, for sociation, Mr. dairy sociation, Mr. Jas. Whitton, for many years connected with dairy work in Eastern Ontario, has been removed by death. The dairymers showed their respect for their old associate in many words of appreciation and a resolution carrying the sympathy of the members to Mrs. Whitton. Another resolution was carried conveying to Mr. M. K. and the sympathy of the members to make the sympathy of the members to his bifus of Smith's Falls, who is retirfied on the sympathy with the sympathy of the sympathy with the sympathy of the sympathy of the sympathy with the sympathy with the sympathy of the sympathy with th

(Continued on page 9)

Issued Each We

Vol. XXXI.

Every Cow in t

T is now f fundamen each cow

C. F. Whitley Probably we to weigh an can be weighed ntes a month fo es and keep FIRST

The avenue of sision and a and persistence overy initiate t should be keen opped and al n-sense, prog What is this agree that it to milk at \$1 a c er 4,000 lbs. 1 e cent. Do a n examining t ar, I found 4,000 lbs., that attered over s yield any pro

CONTRAST I ws (Lanark). erage yield, 3, test, 131 lbs. ital yield, 41,7 45 lbs. fat.

Note that the d a quarter o ven coms. Every time the n the five cow

The 11 cows ga eraging only \$! te profit of \$80 the poorer kin These poor cow od human ener ake huge and qu An address befo

Only \$1.00

Vol. XXXI.

FOR WEEK ENDING JANUARY, 11, 1912.

No. 2

# HOW MUCH MILK SHOULD A COW PRODUCE TO BE PROFITABLE?\*

C. F. Whitley, In Charge of Records, Ottawa

## Every Cow in the Herd Must Produce 4,000 lbs. of Milk to Pay for Her Feed Before She Star's to Yield a Profit--- An Easy Way to Find the Cows That are Not Making Money for Us

T is now fairly generally understood that one fundamental principle of cow testing is that each cow in the herd shall be known to make

a profit-surely a most reasonable proposition.

If each does not pay where lies the fault? Possibly a paraphrase of a poetic line explains: "The fault, dear Brutus, lies in ourselves, not in our cows, that we are profit-less." If in ourselves, the remedy is obvious. Surely we are sufficiently alive to our own interest to give cow

testing a trial, to profit by C. F. Whitley its numerous advantages. Probably we are apt to magnify the effort needto weigh and sample. The milk from two cows

can be weighed in one minute, less than 10 minutes a month for each cow will serve to take samples and keep the records of weights.

FIRST DECISION-THEN SUCCESS

The avenue of success lies through the gate of cision and along the main road of endeavor and persistence. The outlook is so bright for every initiate that our mental vision of the plan should be keen, not hazy; our mental ear unstopped and alert to this call of modern, comsense, progressive dairying.

What is this paying basis for a cow? If we agree that it takes \$40 to feed a cow, then with milk at \$1 a cwt. the mature animal must give over 4,000 lbs. before she returns a profit of even ne cent. Do all your cows give over 4,000 lbs.? n examining the records of 1,600 cows for last ar, I found that 35 per cent. gave less than 4.000 lbs., that is, seven out of every 20 cows attered over several counties could not be said yield any profit above the cost of feed.

### TABLE 1

CONTRAST BETWEEN TWO ONTARIO HERDS cows (Lanark). 5 cows (Oxford). Average yield, 12,068 lbs rerage yield, 3,794 lbs. Milk.
3.3 test, 400 lbs. fat.
Total yield, 60,340 lbs. test, 131 lbs. fat.

milk. 2,003 lbs. fat. 880 profit per cow. 45 lbs. fat. profit per cow.

Note that the five cows gave nine tons of milk d a quarter of a ton of fat more than the ven cows.

Every time the 11 cows filled one factory milk in the five cows filled not one but three similar

The 11 cows gave a bare profit over cost of feed, eraging only \$5, but the five cows gave an avere profit of \$80, thus one good cow equals 16 the poorer kind.

These poor cows are the type of cows on which od human energy is being sacrificed. They ake huge and quite unnecessary demands on the An address before the Eastern Ontario Dairymen's sociation at Campbelliford last week. charity of the most generous fellow in the worldthe average dairyman.

#### WHAT DOES YOUR MILK COST?

For a moment notice the loss entailed by kex ,ing these poor cows. The economic instinct imbedded in man cries out against waste; it warns us not to let poor cows waste good feed that better cows with more suitable temperament can convert into milk at a cost of 65c a cwt., while others under the same roof run the cost up to \$1.20. What does your milk cost? A little more fuel in the stove than what serves to keep it just alight means more heat production, so a little more feed often means more cow comfort and a heavier milk production. Don't save at the spigot and waste at the bunghole.

Surely dairymen can critically and wisely observe conditions in the business world. A manufacturer knows exactly the cost of his products. But two neighboring milk manufacturers find the cost is 65 cts. one side of the fence and \$1.20



Notice the Money Maker on the Right

The farmers who will suffer least this winter from lack of feed are those who have well filled siles. Among the fortunate ones if it r. Leecon of Eigin Co., Ont. whose barn and sile may be here seen. All our best dairy farmers appreciate the merits of the sile.

—Photo by an editor of Farm and Dairy.

on the other. Can you possibly conceive a similar situation in the manufacturing world? Would any two makers of paint, bricks or flannel rest satisfied with such a state of affairs if they compared notes and found the goods of one costing practically double as much as those of the other? If such variation did occur, would you not be the first to exclaim: "Something must be radically wrong; the raw material, the machinery or the manager must be woefully astray somewhere"?

#### DOES THE SHOE FIT?

Take it even in the next stage of handling your own product, milk; imagine three cents a pound for making at one factory, and six cents on the next concession! There would soon be a rebellion! Cow testing is of grand immediate value, because for one thing it enables us to individualize, to detect unerringly the useless animated machine that does not produce milk economically. We don't want the kind that only turns out \$65 worth, while in the next stall is one keyed up to the tune of \$80 or \$100.

In studying economy of production we need to

think if it will cost more, or less, to produce 24,000 lbs. milk from three cows or eight. BRING IT TO THE INDIVIDUAL

We can therefore grip the present value of cow testing, because one main purpose is the determination and then the improvement of the dairy value of each individual cow. That is indefinite, economical, productive power. This record system ensures more intimate and analytical examination of cows. The unit of measure of value is thus transferred to its rightful place from the herd to the individual. Then with the joyful departure of the unprofitable servant that has worked the confidence trick just a little too long, with the selection of young stock of individual merit from parents tried and tested, there must follow a demand for healthier, better class stock, thus better milk and more of it will be provided. And such milk happily will be produced more cheaply. Our older men are desirous of such results; our younger men are eager to speed the advent of that day.

And still more cordial relations between farmers are being encouraged. This demand for better cows further emphasizes the value of practical cooperation, particularly in the purchase of pure bred sires, and in that matter let us beware of the blind worship of cheapness. We need the best available, for the investment is safe. In this social age we need to act together, to pool our energies. Yet as society is only the one man multiplied, individual action must lie at the base of all great movements. Every citizen is ruler over his own particular self-territory. So when we have whole regiments of reform marching towards the goal of public good let each dairyman join the ranks; cooperate.

GOOD OR GOOD FOR NOTHING But with these poor cows is there not also serious loss of product? Does each one of your cows give you a generous 6,000 lbs. of milk? Are yours good cows or only good for nothing? It has been my privilege to address this convention on this topic of cow testing for seven consecutive years. May I point out that, had the initial remarks been heeded, if indeed only three years ago, any dairy farmer might now be keeping cows giving at least 300 lbs. of butter or 6,000 or 7,000 lbs. milk.

That has been accomplished in many instances where men have awakened to a knowledge of what rich freight this argosy of cow testing brings for their unloading. Some men only hope vaguely for such results, making but puny efforts towards their achievement. The grass grows long in the cemetery of feeble aspirations; we have to be up and doing to make cow testing of present value. 30,000,000 HOURS WASTED

There is another serious waste that has been almost entirely ignored. I refer to the fearful waste of human energy in handling these poor cows. Taking the one operation of milking, to hours a cow for 10 months, then, so as not to make out too staggering a case, cutting down that 35 per cent. of poor cows just mentioned to only 20 per cent., it means that there is a waste every year of the stupendous total of 30,000,000 hours just in milking these profitless cows.

This is hard to grasp, so let us digest it this (Concluded on page 4)

ARMER y and d the

This verage why why years! roads. n fino ex-Farm

otal Inbellford a, Mr. There luction

TORR ear redairy 00 was n this yed by indria, vor of figur

or at e hims first ase to oter to e As-

dairy
been
rymeser
thei
of aprrying
rs to
olution
M. K.
ho is
r best
he re-

Derby gavel ; lst

# FORCES THAT SOUEEZE BOTH THE MIDDLEMAN AND THE FARMER

ARTICLE 6.

M OST farmers think that the "middleman" gets too large a proportion of the price that the farmer's products sell for to the consumer. So he does, But he is unable to keep the money after he gets it: It is squeezed out of him in turn by influences that are working away quietly but effectively in the background. These influences are squeezing both the middleman and the

We farmers sell our beef for 5 cts, and 6 cts, a pound. We see the best parts of that meat retailed in the cities at 18 cts. to 25 cts. a pound. We sell our milk in winter, if we can get the chance, for 4 to 51/2 cts. a quart. We see it retailed by the milk dealers for 8 to 10 cts. a quart. We sell our eggs for 25 to 30 cts. a dozen: We see them resold for 40 to 60 cts. a dozen. thus it is with practically all forms of our farm produce. Naturally we conclude that the middlemen who, as a rule, handle our goods for only a tew hours, are getting too large a proportion of the final selling price. This view has been fostered and encouraged. Some farm papers as well as government officials, have repeatedly led in attacks on the middlemen. In Ontario, especially, a great deal has been made out of the fact that one large establishment was shown in the courts to have made profits that ranged over a series of years, from 30 to 120 per cent. This circumstance has been used for more than it was worth.

The large concern referred to is an exception. While it has succeeded dozens of others have failed. It is never safe to judge by exceptions. It has succeeded only because it has done an immense volume of business on a very low margin of profit on the cost of handling the goods it has sold. This margin of profit, while it is large on the relatively small paid-up capital of the company, is extremely small on the millions of dollars worth of goods handled by it in the course of a year. Let us illustrate:

#### HOW BIG BUSINESS IS DONE

Merchant A has a paid-up capital in his business of, say, \$60,000. We will assume that he handles nothing but eggs and that his expenses, including rentals, wages, railroad rates, agents' commissions, cold storage charges, the cost of buying the eggs, etc., amount to \$25,000 a year. Suppose, also, that it costs him 30 cents a dozen to buy his eggs. and that he is able to re-sell his eggs at 50 cents a dozen. Thus he would have a margin of 20 cents a dozen on each dozen of eggs. But! he would have to sall 1,250,000 dozen of eggs to pay his expenses. He would not have a profit at all until he had sold that quantity. After that he would have to sell only 150,000 dozen eggs more at the same rate to enable him to make a profit of 50 per cent., or \$30,000 on his paid. up capital of \$60,000. But notice what a large amount of business he has to handle and the risks he has to run before he can make any profit.

Let us now suppose the case of another merchant. We will call him Merchant B. His paidup capital is \$300,000. His expenses because he does business on a larger scale, although larger, are relatively not so large as those of Merchant A. Merchant B's expenses are \$1,000,000 a year, But he has worked up a trade which enables him to handle 10,000,000 dozen eggs in a year. Thus, all he requires is a margin of 12 cents a dozen on the large volume of business he handles to enable him to earn the \$1,000,000 required to pay his expenses and leave him \$200,000 a year profit. This is equal to 66% per cent, profit on his paid-up capital of \$300,000. But notice this fact: Because of the large volume of business he does he is able to make a handsome profit and still sell his eggs on a margin of 12 cents, or only 42 cents a dozen, while his competitor has to charge 50 cents a dozen to break even or make a profit. He makes his business grow and prosper, not, as many people suppose, by advancing prices to the consumer, but by lowering them until he is able through underselling his competitor by eight cents a dozen, to draw trade away from him, and thereby still further increase his own volume of business. Should his competitor strive to meet his competition as many are forced to do-by dropping his selling price also to 42 cents a dozen, instead of making a profit on the 1,400,000 dozen eggs he handled, he would have a loss of \$82,000 on the one year's operations. This is not a theory. It is a cold, hard business fact that has worked the ruin of hundreds and hundreds of business concerns. How long do you suppose the little fellow can stand up against the big fellow under such circumstances? Notice, also, that while the margin of 20 cents a dozen the first man has may seem large, his ability to make a profit handling eggs, even on that margin, depends on the volume of business he is able to do.

#### RELENTLESS COMPETITION

The foregoing is a crude illustration. It serves to illustrate, however, the heartless "dog-eatdog" principle that controls the commission and produce business in Canada and elsewhere. Everywhere the big follows are driving the little fellows out of business. They are doing it not by making a large profit off each hog, steer, case of poultry or dozen of eggs they handle, but by handling such an immense quantity of this produce at such a low margin of profit off each that the little fellows can't compete with them, in spite of their apparently large profits, and are forced to the wall. We doubt If there is any other line of trade in Canada where the competition is so merciless and unscrupulous, and where the margin of profit, off the goods handled. Is so small, as in the produce business. Even were it granted, however, that some few of the large firms have made apparently excessive profits: What about the scores of little fellows that fall miserably every year, because they can't make ends meet? It is foolish to forget them. Because one or two succeed, we must not jump to the conclusion that all the rest are doing equally as well. They are not.

There is practically only one condition under which the big fellows are likely to prove dangerous to the community. That is when, as the beef trust did for a while in the United States, they are able to gain control of the railways and other public utilities and by means of secret rebates and combines, drive the little fellows out of business. That such a condition exists in Canada has never been suggested. If it did, our Dominion Railway Commission would soon set things right. Another possible condition is that under which a few of the large concerns might eventually unite, and, by enhancing and depressing prices where competition appeared, thereby strangle such competition. There is no real indication that that condition has been reached in Canada. It would be particularly difficult to achieve in the produce and provision business where no great capital is required to buy and slaughter animals, or handle farm produce for local consumption.

THE STRUCGLE FOR EXISTENCE

Among the little fellows the competition is just as keen. In our towns and cities, small butcher

shops and grocery stores, which re-sell moof the produce the farmer raises, can be found every few corners. Because the volume of business they do is necessarily small, the competition between teem is cruelly keen and failures numerous. This condition has been intensified during the past few years. The big packing concerns have established dozens of branch retail stores in our larger cities. These branch stores have ruined many of the small independent concerns. Again, they have not done so by getting large profits on the goods handled: Instead, they have forced the margin of possible profit so low the little fellows have been unable to compete and exist, and, therefore, have been force to give up the unequal struggle.

THE REAL CAUSE

Farm and Dairy holds no brief to defend the middlemen. We have only one object in view in doing so in this case. We believe that we farmers are being misled when we are told that the middlemen, as the term is commonly used to cover all classes of middlemen, are growing fat at our expense. While it is true that they receive high prices for our products, they have to or they could not exist. This, again, is because the cost of doing business in our cities is so enormous it makes the payment of high prices necessary. The real "blood suckers" of the farmer are not the middlemen, for were their profits on the average excessive, the bitter attacks that have been made against the middlemen periodically for years, would have brought about an improvement long ago. Instead, they are mainly those economic forces concealed in the background that suck from us farmers and others the money we earn by forcing up land values in our towns and cities until in some instances they equal millions of dollars an acre. They include, also, excessive railway and express rates. These excessive land values and charges burden not only the middlemen, by increasing to them the cost of doing business, but all other classes of the community as well. Next week we purpose showing more clearly how this is done.

# How Much Milk Should a Cow Produce

(Continued from page 3) way: It means that enough energy, enough man power, is being put into just that one operation of milking poor cows in Canada to equal the work done by horses plowing 375,000 acres of land. It is appalling that there should be this burdensome tax on human endurance, and the strangest part of all is that many view this matter so indifferently and complacently. Our energy, above all things, needs conservation and turning to profitable account. There is a limit to our natural resources, therefore we wisely seek to conserve them. Lut of infinitely more value is human energy (which we unthinkingly squander), because knitced with human ingenuity it has to guide and direct the wider conserva-on. Cow testing has been the first to point out this huge expenditure of muscular and nervous force. Such sheer waste must be stopped, human energy must be conserved. We want no spendthrift nation.

BEST PAYING PROPOSITION YET

Our results establish cow testing as one of the best time-saving and labor-saving proposition ever placed before Canadian dairymen. For the investment of one little dollar in scales men are now receiving \$20 through the increased production, besides the intense satisfaction of knowing that they are milking none but profitable cows.

Farm and Dairy is the best dairy paper that ! ever read. It is encouraging for young men to read and find out what others have done and how well they have gotten along with little or nothing to start with.—F J. Cook, Essex Co.,

DrAn atta more serio other anin to the co which, in its size the With ra

system are are sufficie dry food o suffers from Indigesti

from a libe and indige takes plac freezes up work. The gestive tro when horse meagre to denly. A grain ratio

Cases of winter amo in compara months, sor necessitates pare his te gives a ver fast and sta too many ca

Stomach mastication bolts his fo of diseased the animal Weakness debilitating

gestion, and constitution the greatest against atta tain interva noss

Some kind retically cal are found in for instance is found to causing pur Barley also, not a suitab oats or bran be used with tities for a to its use. with other given in lar duce stomach

Musty or are common Green foods, put on them enlargement

The presen hay crop, wi largely on str well on straw taken not to amount of sti mixing a lot thus coaxing with very inc fed by itself as to how mu

Very little that in treat 1, 1912

sell most

he found

e of busi

compet

d failures

intensified

packing

ranch re-

se branch

dependent

profit so

to com

en forció

efend the

in view

that we

told that

only used

growing

t they re

have to

n, is be-

cities is

gh prices

of the

era their

itter at-

middle

brought

ead, they

ni haleed

mers and

up land

in some

an acre.

and ex-

lues and

, by in-

ness, but

II. Next

how this

roduce

ugh man

peration

the work

land. It

densome

gest part

indiffer

bove all

o profit-

tural re

energy

se knit

ide an

ting has

expendi

ch sheer

nust be

e of the

osition

For the

nen are

produc-

knowing

that I

g men

ne and ittle or

ex Co.,

cows

on.

#### Indigestion in the Horse

Dr. H. G. Reed, Halton Co., Ont.

An attack of acute indigestion is likely to prove more serious in the case of the horse than in any other animal on the farm. This is due in part to the comparative smallness of the stomach. which, in the horse, is smaller in proportion to its size than in any other domesticated animal.

With rare exceptions diseases of the digestive system are due to errors in feeding. When horses are sufficiently and not over-abundantly fed with dry food of a proper quality the stomach rarely suffers from disease.

#### CATTREE

Indigestion is often caused by a sudden change from a liberal and nutritious diet to coarse, poor and indigestible fodder. Such a change often takes place at this season when the ground freezes up and the farm horses are thrown out of work. The opposite condition may produce digestive troubles, as for example, in the spring when horses are put to work the change from a meagre to a liberal diet is often made very suddenly. A sudden increase in the quantity of the grain ration often produces sickness.

Cases of this kind are not uncommon in the winter among farm horses. Often after standing in comparative idleness for some weeks or even months, some sudden emergency will arise that necessitates a hard day's work. In order to prepare his team for the extra exertion the owner gives a very much larger feed of oats for breakfast and starts out on his journey only to find, in too many cases, that he has a sick horse.

#### POOR MASTICATION A CAUSE

Stomach trouble may also arise from improper mastication of the food, as where a ravenous horse bolts his fodder too greedily, or where, because of diseased or worn-out teeth, it is impossible for the animal to properly chew his food.

Weakness of the stomach resulting from some debilitating disease is sometimes a caue of indigestion, and occasionally animals are torn with a constitutiona! digestive weakness. In such cases the greatest possible care is necessary to guard against attacks, a grain ration at rare or uncertain intervals being almost sure to produce sick-

#### DANGEROUS GRAINS

Some kinds of food good in themselves and theoretically calculated to be proper for the horse are found in practice to be dangerous. Wheat, for instance, which is a highly nutritious food, is found to derange the stomach of the horse, causing purgation, lamanitis and even death. Barley also, while not so dangerous as wheat, is not a suitable food for horses unless mixed with oats or bran. Any kind of cooked food ought to be used with great care and fed in small quantities for a time till the stomach becomes inured to its use. Bran also, so useful when combined with other foods, or as an occasional mash, if given in large quantities is very likely to produce stomach trouble.

Musty or over-ripe hay or any kind of straw are common causes of digestive derangement. Green foods, particularly when animals are first put on them or if given too abundantly, produce enlargement and bloating.

#### A CAUTION ABOUT STRAW

The present season, due to the shortage of the hay crop, will likely find many horses being fed largely on straw. While most horses will do very well on straw with some grain, care ought to be taken not to induce the horse to eat a large amount of straw by the quite common practise of mixing a lot of cut straw with a little meal and thus coaxing the animal to overload its stomach with very indigestible food. The meal should be fed by itself and let the horse be its own judge as to how much of the straw it will est.

Very little reflection will convince most mer that in treating an attack of acute indigestion little or no good results come from administering medicine into the stomach. The stomach is for the time being inactive. There is no assimilation of its contents taking place. Consequently the medicine simply lies there and is not assimilated by the system at all and, with the exception of some drugs that might have a slight chemical action, do neither good nor harm. It will be seen how useless it is for any man to try and successfully treat the disease without having the means of administering drugs hypodermically injected under the skin.

A farmer ought to avail himself of all possible knowledge in the way of feeding and caring for his horses in order to avoid having cases of the kind. If he should happen to have a case, the wisest course he could pursue is to send at once for competent veterinary assistance.

### The Health of the Herd Bull

E. Watson, Huntingdon Co., Que.

"I wonder what is the matter with my bull. He seems to be absolutely useless." So spoke a



Tnese Mangers can be Regulated to Suit the Length of the Animal

The mangers can be regulated to that the sengen or the cammal the mangers in the stable of Mrs. Wm. McKennie, Victoria Co., Ont., here illustrated, can be moved so as to vary the length of the stall to fit the animal. Three different lengths of stall can be made There several other good prints about this stable. It is light, well ventilated and closer the kind of a stable in which cows will do their hest work at the pail.

French farmer to me some days ago. And I told him without any hesitation.

That farmer did not realize that exercise is sential if the herd bull is to do good service. His bull was never out of its stall from year's end to year's end, except occasionally for service. Not getting exercise, it had lost ambition and vitality. And vitality, outside of good breeding, is the most important quality in a sire.

And the bull was not fed well. True, it looked as if it were in good flesh, but that was due to lack of exercise. Hay was about the only food it

I have found that if we are to get satisfaction from our herd headers it is absolutely essential that they get lots of exercise, and be well fed. We have a strongly fenced paddock for our bull, and he is there every fine day, winter and summer, for a few hours at least. The fresh air and exercise keep his vitality at high water mark. And he makes good use of a fairly liberal ration of grain feed in addition to hay and roots.

I believe that the trouble with many of the unsatisfactory bulls in the country is due to one or both of these causes. I do not know whether my French neighbor took my advice as to the care of his bull, but I do know that all who follow my practice are not troubled with unsatisfactory

A man in North Carolina who did much for the cause of education used to say, "Educate a boy and you educate an individual; educate a girl, and you educate a whole family."

## We Can Control the Feed Supply

Henry Glendinning, Ontario Co., Ont.

We farmers cannot control the elements. Can we control the feed supply? The past summer was exceptionally dry. The catch of clover in 1910 was not good, and in 1911 we had the worst spring for killing out clover that I have ever known. Alfalfa survived better than the clover, but it was not at its best. Pastures were very poor. And we were not responsible for the weather conditions that caused this.

There was one crop, however, that was not short. Indian corn was excellent. It has been the case for years that corn is a success when other crops fail. My solution of the feed supply problem is to grow more corn; corn for winter feeding and for summer feeding as well.

#### OUR MISTAKES WITH CORN

I do not believe in growing the large, mammoth southern corn. It does not reach a proper stage of maturity and has but little food value. We are making a mistake also in cutting the corn and spreading it in the pastures for the cat-

tle to eat. This is un-profitable. My idea is to grow silage corn only, put it into the silo and feed each day in the year. If we have the summer silo we are never caught by a dry season. When fed in conjunction with pasture grasses, silage makes an excellent summer feed.

Milk contains 3.6 per cent. of casein. This casein or protein is the most important element to be looked for in foods for milk production. If on analyzing a food we find that it is rich in protein we can almost take it for granted that that food is a good milk producer. An analysis of corn shows that it is low in protein

## contant

WHERE SILAGE IS DEFICIENT Here is where many have fallen down in their use of silage. They have fed corn silage alone without making up the deficiency in protein. Silage is bulky, succulent, palatable and cheap, but we must add the protein.

We want some protein food that is cheap. Alfalfa has supplied that want. We grow both corn and alfalfa in abundance, and the farmer who does that does not need to "call the king his uncle." We can produce from five to six tons of alfalfa hay to the acre. We can put it in the tarn at a cost of less than \$4 a ton.

Alfalfa, corn and the silo; with these three we farmers can control the weather, decrease cost of production and make dairy farming profitable.

An ample supply of ice on the farm is of great economic importance. The work of harvesting and storing is done at a season when it will cost very little, as help and teams are usually less remuneratively employed during the winter than during the summer months. The cost of constructing ice houses and refrigerators is small in comparison with the economic returns and the comfort which they afford. Ice is of greater economic importance in the country than in the city, yet few who have the opportunity avail themselves of this luxury .- E. C. Denn, York Co., Ont.

Good planning always precedes success.

### neceseseseseseseses FARM MANAGEMENT

### Best Use of 30 Acres

Dest Use or 3U Acres

Have recently purchased a farm of 100
acres. About 20 acres of this is hush,
almost 50 acres in rough pasture, leaving
only 30 acres of arable land. I plan to
make this into a dairy farm. How would
not be a supported to a support of the support
of the support of the support of the support
of the support of the support of the support
of the support of the support
of the support of the support
of the support of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the support
of the su

and we would therefore suggest that a three-year rotation on the arable land would meet your conditions best. We would suggest that you divide the 30 acres into three fields of 10 acres each and practice a three-year rota-

The rotation would be corn, mixed The rotation would be corn, mixed grains seeded down, and a third year, clover. For the corn crop, plow deeply in the fall, ridge up, and cultivate

well the following spring. Plant the well the following spring. Plant the corn in rows three and a half feet apart and thin out the stalks to nine inches apart in the row. If the land is well cultivated when in corn, it is well cultivated when in corn, it will not be necessary to plow before putting in a crop of grain the next spring. The disc harrow will do the work. A mixture of equal parts by weight of oats and barley makes a good seeding where the grain is to be fed to dairy cows.

Economy in the use of the seed is poor economy indeed. We would sug-gest that you seed six to eight pounds gest that you seed six to eight pounds of red clover, two pounds of alsike, six to eight pounds of alfalfa, and six to eight pounds of timothy per acre. Even at present prices this is cheaper than a small seeding. Cut the hay one year and then corn again, and so forth. This will give you a maximum reached to find for the angular great state. amount of feed for the small area at your disposal.

Have you forgotten to renew your subscription to Farm and Dairy? and in compiling their prices.

#### Good Use for Paint L. B. Durrin, Halton Co., Ont.

Paint might be used with great profit by all farmers who are con-templating a sale of part of their im-plements. We do not use implements very long before the new look disapvery long before the new look disappears, and the price at which they can then be sold does not compare can then be sold does not compare with the utility value of the implement. At a sale which I attended recently a neighbor got around this difficulty very nicely. He found a good market for some paint and profitable returns for the time that it took him to apply it. All of his implements that needed it were repainted. They looked as good as new and sold for better prices than would painted. They looked as good as new and sold for better prices than would otherwise have been the case. This is the best market for paint that I snow of

Even if we are not having a sale, I believe that it would pay us to keep our implements painted. Farm wagons, for instance, will last much long-er if covered with a good coat of paint, and there is a whole lot more satisfaction within interest. paint, and there is a whole lot more satisfaction riding into town on a cell painted wagon than on one of the dull, dirty kind that we usually have. A little paint used in this manner also prevents rust of the metal por-tions of machinery and will more than pay for the time expended and the cost of the paint.

### Why Milk Cows in Winter?

There are important advantages to be derived my inter dairying basides the much bird with for mile which prevail during the year. Cowa as a rule will yield care milk when they calve in the fall than when they calve in the fall than when they calve in the spring. This is partly accounted for by the fact that the cowa are bothered less by flies and heat while naturally at a proper of the second of the second with the part of the short own wifer from flies and heat, the full extent of the labs suffered from flies and heat, the full extent of the labs suffered from flies and heat, the full extent of the labs suffered from flies and heat, the full extent of the labs suffered from this source, There are important advantages to of the loss suffered from this source, we believe is generally underestimat-ed. During hot weather while the flies are bad the best of feed will fail to maintain the flow of milk and the

heaviest milkers or the freshest covare usually the ones that suffer most

are usually the ones that suffer most.

Fall calving also makes possible more uniform feeding, especially where silage is available. When cows calve in the spring they usually have pasturage enough for a good flow of milk until about the middle of July or milk until about the middle of July or the first of August. At this time pastures as a rule get short and come rapidly fall off in milk. By the time better fall feed is available they have

better fall feed is available they have dropped of so much as to make it impossible to bring them back to a fair flow of finite were with good feeding. The result is a reduced yield of milk and an early drying off of the cows. Winter dairying will help to distribute the labor of the farm more evenly throughout the year. It is an impossant gatvartage to be able to do not seen the second of th other farm duties demand least attention. During the winter there will be plenty of time to keep milk and butter fat records of the individual cows of the horder will be the state of the horder will be the horder will be the state of the horder will be of the herd as well as to keep breeding and calving records, all of which commonly omitted.-Ex-

#### About the Farm

During inclement weather profitable hours may be spent in the work shop fixing up things. Of course, you have a tool house well lighted with room ough to work.

enough to work.

The principal causes of sore shoulders on horses are over-work, over-feeding and ill-fitting collars.

Milking qualities in sheep are

characteristics transmitted from o

characteristics transmitted from generation to another.

A collar that fits properly rarely gall the shoulder, provic the driver sees that the face of shoulder is not allowed to "scald." It appears from observation and experience that cows with the most

highly strung nerves are, as a rule highly strung nerves are, as a run the best milkers.

It has been found beneficial t work the land after every rain, usin the harrows or the cultivator, as

cording to the quantity of moisture on the ground. Not maximum yields, but maximum

rofit, is the commercial end of goo farming.

A Great and Unusual Offer For a number of years we have b looking for a veterinary book treating of the diseases of horses, cattle looking sheep, swine and poultry, whice could place before our readers. have great need for such a book. last we have an edition of a greveterinary book, which has been the market for some years, and the book we are offering free to our peo-ple, as advertised on page 11 of the

This book is clear, concise and a curate and presents the approvement of the surface and presents the approvement of the surface and sur

Other than the description given this book in the advertisement page 11 we would say that two of editors have had this book availain their farm homes, one in Ontari the other in Nova Scotia, for a num

the other in Nova Scotia, for a number of years, where it occupied prominent position on the book-shell and was consulted with much profit able advantage each time that another than a superior of the farm animals were taken sick. All of the diseases of farm stock and described very fully in this book, and in each case the cause, symptoms and treatment are given. A chapter dealing with all of the medicines used for the superior of the superior horses and cattle and another gnapte giving prescriptions and prepara-tions, including drenches, salves. lim-ments, ointments, plasters, poultice etc., will be found to be of a special

BORSE TRAINING AND PARTING

Part two of this book deals with practical horse training. The information it contains about the breaking and training of colts, the had habit of the horse and how to control them and the information about other things that every man who owns a horse should know, is invaluable and worth many dollars to have. This book is not for sale. We have

This book is not for sale. We have taken the taken the taken to cost to you other than every little of your own time. For two subscriptions for Farm new subscriptions for Farm an Dairy, each taken at our low rate of \$1 a year, we will send you free this great horse doctor book, postage paid special offer to our prople

In order that our regular subscrib-rs may more readily obtain a copy of this work, we are offering it them in return for their own renew subscription sent in now and one not subscription to Farm and Dairy takes subscription to Farm and Dairy takes at our usual low rate of only \$1 for a year. No matter when your secription expired, send in your sense of the work of the wo sent now, along with one new suscription, we will send you the book

BARLEY in most sections is not fit for seed this year. My 20 acre of O.A.C. No. 21 Barley is first-class. It averaged 47 bushels to the acre. If good seed and auses of sore are over-work, at once for prices. Satisfaction, or you are H. R. NIXON, ST. GEORGE, ONT.

# THE STEEL COMBINE TO CONTROL. PRICES OF WIRE

The London Free Press, on Dec. 28th, published an announcement to the effect that Hamilton is to be the Steel centre for Canada, that the Steel Corporation of Canada, which Stee: Corporation or Canada, when is composed of iron manufacturers who recently merged their interests under the above name and who are endeavoring to control prices for Canada on all steel and iron products. gigantie combine is this gigantic combine is rusning to completion at Hamilton, new build-ings and plant and spending millions of dollars on their equipment. We are told that the Steet Corporation of Casada, here were combined as a suspension of the complete combined as a complete co rushing

Canada have assurances from the Borden Government at Ottawa, that Borden Government at Ottevas, the Borden Government at Ottevas, they will be afforded protection of the procession of the state of the

One of the items which is of very great importance to the farmers of Canada, is wire fence. For a great many years, the sizes of wire used in the manufacture of this farm necessity. sity have been admitted free of duty, but a duty of 15 per cent was retained finished fence. The Canadian nce manufacturers formed a comline of their own in order to pocket for themselves the full protection of this 15 per cent. In fact they came to look upon this 15 per cent protec-tion as a legitimate addition to their ordinary profits.

Three years ago the SARNIA FENCE CO. opened a plant at Sar-

nia, and in compiling their prices, they based their profits upon a reasonable return for their money invested, leaving out of their consideration, the return for their consideration, the result of the free combine, and those of the fence combine, and those to say that many threats were made by the combine, and methods fair, and the versult of the combine, and methods fair, and the versult of the combine, and methods fair, and the versult of the combine, and methods fair, and the versult of versult of the versult of versult o FENCE

FENCE

and methods fair, and otherwise were resorted, to in order to prevent the Sarnia Fence Co. placing their fence on the market. After practically three years' fight, the Sarnia Fence Co. came out on top with the largest and most modern fence plant in Canada, and 25,000 Canadian farmer customers at their backs. Now that every complete the statement of the same combine in Canada impossible, shall the present Government hand over to the Steel Corporation of Canada awaganon in the form of protects. ada a weapon in the form of prot tion on fence wire which undoubtedly would be used as a club to knowle rould be used as a club to knock core dollars out of the farmer. By the more dollars out of the farmer. By the placing of a duty, or by the giving of a bounty on wire rods, or fence wire, we will be deprived of the right to purchase in the open market, which assures us of a fair price on wire. We will have to look to the open such as the contract of the co petition to them in the finished fence. They ask the Government for prothey ask the Government for pro-tection in order that they may be able to control the market and com-pel the consumer (which in this instance is the farmer exclusively) to pay the highest possible price. Are you, the farmers of Canada, go

Are you, the larmers of Canada, going to stand for this? Let every farmer write his member, or call upon him personally, and protest against the giving of either a bounty or the placing of a duty on fence wine. This means dollars taken directly of the product o from your pocket and is worthy of your most vigorous protests. You are a voter and if the farmers stand together they can head off such an outrage. We, the Sarnia Fence Co., ask for no protection. We can stand outrage. We, the Sarnia recan stand ask for no protection. We can stand on our own forting, and will under-take to protecting for the farmers of Can-ada against a forcement will not yield ing the Government will not yield to any such unfair demands from ing the Government will not yield to any such unfair demands from the iron and steel interests, and re-fuse the Steel Corporation of Canada an unfair advantage in the Canadian market at the expense of the farmers of the Dominion.

The Sarnia Fence Company will from time to time keep the farmer posted on the action of the Govern-ment in this matter and we ask your assistance and support.

Yours very truly, THE SARNIA FENCE CO., LTD. ...... The F

The Fee use of or terested a tions, or All questi attention.

20000000 Cows' M Have half a it be advisal these foals to ter?—A. C., Cow's milk

vantage in halk should ing foals we maximum g. They different pur Milk, howe in muscle a isfactory residuable to they are of t ing and will forcing for t larly valuable The foals enarator m

Good

There is a pay too. in or vinter our cov airying is pra lobb, Brant

rain feed wi the pail or be arn.

Alfalfa Hay Dairymen h feeds high ng good price oose. The c ucerne hay a emphasis ucerne as a ctual feeding ng bran and d in this e s nearly equ o production ourse, kept a der the same ration for bot follows: Clove 30 lbs., corn tion to this c

pounds of luce eight pounds of the final reduction of both the same. ucerne hay pailk, thus ind is equal to or for milk prod which are the oted that th ucerne were i ion than wer If all dairyme ton of lucerne of bran as a fe more would be fort to learn for this crop Fraser, Chief versity of Illin

31

11, 1912 ted from ...

properly providin r, providing face of the o "scald." rvation and o, as a rule

beneficial to benencial to y rain, using ltivator, ac of moisture

ut maximus end of goo al Offer we have he

book treat breses, cattle breaders, which we a book. nas been rs, and th to our per eise and a

approve nce in suc that grasped on given of isertent of two of our obtain Ontario for a nun

book-sh taken sick m stock ar ptoms apter des her chapte prepara poultices f a specia

deals wit breaking trol them out other We have we have you can than a For two

arm w rate free thi subscrib-n a copi ing it to n renewa iry taker your su your or credited r renewal new sub-ne book

ections seed th 20 acres No. 21 aged 47 n, or you ONT

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The Feeders' Corner is for the use of our subsoribers. Any insternets dar are invited to ask questions, or send items of intorest. All questions will receive prompt attention.

Cows' Milk for Foal Feeding

Have half a dozen spring colts. Would it be advisable to feed cows' milk to these foals to push them along this win-ter?—A. C., Ontario Co., Ont.

Cow's milk can be used to good advantage in feeding foals. Too much chalk should be avoided, as in feeding foals we do not try to force them to maxinum growth as we would a log. They are intended for quite a rent purpose.

Milk, however, is palatable and rich in muscle and bone-forming fovia, and moderate amounts will give astifactory results. Whole milk is too raluable to feed to your foals unless they are of the highest class of breeding and will sell for big prices. For forcing for the show milk is particularly valuable.

The foals can be taught to drink exparator milk by moistening the

Pointers on Milking a Cow !!

There is an immense difference in milkers. One milker will get 20 per cent. more milk from a cow than would another.

would another.

Do not excite or worry a cow by loud talking or abuse of any kind. Milk quietly and quickly. Get all the strippings. The first milk may contain as little as one per cent. of fat, and the last six or

per cent. of fat. and the last six or 10 per cent. In milking use the whole hand, closing first that part of the hand next the udder, then force the milk past the sphinteer muscle by cosing the remainder of the hand.

Wetting teats is a dirty, filthy habit. It also allows the teats to chap and cause in had weather. If there is

and sour in bad weather. If there is difficulty in milking a cow dry, a small amount of vaseline may be rubbed on the hands. It is more san-



Good Buildings are a Paying Investment on the Dairy Farm

There is a heap of satisfaction in having good buildings on our farms pay too. In our cold Ganadian winters good buildings are necessary if we would winter our cows under the best conditions. This is particularly true where winter hardy in the property of the property of the buildings here illustrated are on the farm of Mr. Elmer belob, firstal Co., Ont.

Dairymen have learned the necessity of feeds high in protein, and are paying good prices for bran for this purpose. The composition of bran and incerne hay are practically the same. To emphasise the importance of lucerne as a feed for dairy cows an actual feeding test was made comparing bran and lucerne hay. The cows used in this experiment were divided as nearly equal as possible according events of the control of the control of the control of the course, kept an entry has possible according to the course, kept as nearly as possible according to the course, kept as nearly as possible according to the course, kept as nearly as possible according to the course, kept as nearly as made up as follows: Clover hay 6 lbs., corn silege 50 lbs., corn meal 6 lbs. In addition to this one lot was fed eight pounds of lucerne and the other lot

sa nearly equal as possible according to production. Both lots were, or source, kept as nearly as possible under the production and conditions. The basal rate of the production of both lots was practically the same. The cows receiving the production of both lots was practically the same. The cows receiving the production of both lots was practically the same. The cows receiving the production of production under conditions which are the same as those existing on most dairy farms. It should be noted that the cows receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical condition than were those receiving the licerne were in Letter physical conditions that the licerne were licerne physical conditions that the licerne were licerne physical conditions that the licerne were

Bobb, Brant Co., Ont.

Train fred with milk and then tipping the pail or box on edge so that milk pail or box on edge so that milk cannot be drunk. They will soon learn.

Alfalfa Hay Compared with Brant Dairymen have learned the necessity of feeds high in protein, and are paying good prices for bran for this purpose. The composition of bran and propose. The composition of bran and compared to the provided as a feed for dairy cows an actual feeding test was made comparing bran and lucerne hay. The cows laced in this experiment were divided as nearly equal as possible according is in private hands. is in private hands.

# PEERLESS-PERFECTION



Real Fence Service Guaranteed Decries Wire Fence is built to give absolute fence satisfaction and makes good. Best quality wire galvanised to prevent rust and securely held at each intersection by the Peerless Lock combined with fence experience pose the Peerless Fence.

PEERLESS WIRE FENCE

That is the kind you should use on your farm and save expense and worry. Write for Our Catalog Today Peerless Poultry fencing and Farm well Hoxle Wire Fence Co., Ltd.,

, Winnipeg, Man., Hamilton, Ont.



# PERFECT

Maple Evaporator

Price low—quality high—product the best possible—the kind you like syrup—it retains its maple taste—all un necessary expense and middlemen's profits cut out. Solo at a price the poorest man can buy. Every one guaran teed. Write for pamphlets and recommends. Do it now

Steel Trough & Machine Co., Tweed, Ont.

A BT LITTER CARRIER will lift the entire burden of your barn work from the expenses account. With a BT in your barn, what was once the most distastful bit of elsavery in the day's work, becomes a more pastime and the effect is a big and immediate reduction in the cost of the hired help.

The BT Litter Carrier carries the manure from the gutters to the shed or pile in a fraction of the time it takes under the old style. No mat-ter how many cows you keep or what it costs you with the pitchfork and wheelbarrow system to clean the barn the BT will save you half the expense



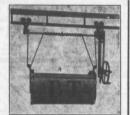
in financial suc unnecessary triyour expenses In the business of farming, the BT Litter Carrier with the wholeBT Equipment is alanned to increase the profits by reducing the

# THE BT LITTER CARRIER

is so eimple in its construction that there is nothing on it to get out of or der. WE GUARANTEE our Carrier absolutely FOE FIVE YEARS. With no other carrier is such a guarantee given in fact, most of the firms change their carrier every year, and they will have to keep on changing, for they make the combined. Here are some of the reasons why was than all other makes combined. Here are some of the reasons why was than all other makes combined. Here are some of the reasons why was then all other makes combined. Here are some of the reasons why was then all other makes combined. Here are some of the reasons why was then all other makes combined. Here are some of the reasons why was the properties of the reasons why was the properties of the reasons why was the sum of the reasons when the properties of the reasons when the properties of the reasons when the reasons

others. The track is two inches in depth—he next deepest is only 1% inches. It will carry a much heavier load than any other, and is much easier to erect. It courts no more than others.

There are many other reasons which you should know. Get our catalogue and learn them—it is free. and learn them—it is free, us now. Full out the coupon and mail it to-day. You will be surprised how cheaply you can put in a BT Litter Carrier.



### BEATTY BROS.

Fergus, 1610 Ontario Kindly send me (free) your book n Litter Carriers and prices.

I will need about ..........ft. of track, and expect to put in a Litter carrier about

Will you need any Steel Stalls of Stanchions this year?..... Post Office .....

# **BEATTY BROS., Fergus, Ont.**

We also manufacture Steel Stalls, Stanchions and Hay Tools



Is Built for Heavy Duty. Nest and Compact in Design. Do Ferfect Week, Secuse they are Built on Frinciples that are absolutely Correct, and the Ensiest The wheel is Built. May be a be a long stationary steel spirdle. As a result, there is loss frietion, and the had result that the second worn and calue the wheel

waset to say toward the tower.

"BAKER" wheels have large numbers of
small sails, without rivets, as compared
with other makes.

The small sails develop the full power
of the wind and snable "BAKER" mill to
pump in the lightest breeses.

The engine is so constructed that the gears cannot wear out of mesh.

gears cannot wear out of mesh.
All working parts are covered with a
cast from chiefs, thme protecting same
from los and alest.
We make a full line of Steel Towers, Gaivanized Steel Tanks, Pumps, Etc. . Write
for Catalogus No. 88.

THE HELLER-ALLER CO. WINDSOR

DRILLING MACHINES

Over 70 sisse and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or norse powers force, simple and durable. Any mechanic case operate them easily. Send for called the control of the con

Advocated

W. C. McCalla, Lincoln Co., Ont.
In some places in the United States
too much importance is attached to
commercial fertilizers by fruitmen and commercial fertilizers by fruitmen and vegetable growers and not enough to stable manure and green fortilizers. Stable manure is of great use to the soil by warming it of great use to the soil by warming it on this, it contains all three elements usually deficient in all three elements usually deficient in the soil—nitrogen, potash and phos-phoric acid. Sometimes, however, if we apply manure to obtain phosphoric acid, we will have too much nitrogen. You can regulate this state of gen. You can regulate this state of affairs. I make use of a cover crop of clover, adding farmyard manure, and aspplement it with commercial fertilizer. Nitrogen costs about 1 icents a pound, plosphoric acid six cents and potash less than five cents. It will thus be seen that by using clover which care. er which contains a large amount of nitrates and augmenting by the use of nitrates and augmenting by the use of the cheaper elements, economy is ex-ercised. If we use a low grade fer-tilizer, and are not careful to get our humus back, we will in time let our

humus ones, land run out.
Some of the fertilizers used contain tirate of soda, sulphate of ammonia, dried blood, word waste, hair monia, dried blood, word waste, hair when you buy fertilizers containing auhetances it is hard these substances it is hard to find out the exact percentage of nitrogen, etc., contained in them, and it is almost impossible to use them intelligently.

HORTICULTURE they can be carried through the soil.

If it is a dry year, a good deal will not be taken up by the plant that year, but will be taken up next year. Do not apply when the gound is

No one who is engaged in farming and who has difficulty in getting ma-nure can afford to ignore commercial aure can afford to ignore commercial fertilizer. Aguin, we cannot afford to the foreign of the fertilizer of the fertili

Treatment for Potato Scab

How can I treat seed potatoes to kill the scab? I do not wish to carry the disease from one part of my farm to another.—A. C., Simcoe Co., Ont.

Potato scab is caused by the growth the tubers of of the tubers of a parasitic fungus.
There are several methods of treatment. The one now generally considered best is as follows:

Take one-half pint formalin to Take one-half pint formalin to 15 gallons of water. Formalin is a fluid which can be purchassed in most drug stores. It is not poisonous and can be safely handled. Potatoes which have been treated should not, however, becaused as food either by man

In paration for treatment it is best wash the potatoes, provided much earth adheres to them. They should then be scaked one and one-best or two hours in the mixture of alin and water. The same solu-

alin and water. The same solu-may be repeatedly used. Just many times is not known.

A convenient method of treatment a convenient method of treatment consists in putting the water and for-malin in a barrel, the potatoes in an open woven basket or bran sack, and suspending them in the barrel so th will be completely submerged. The will be completely submerged. This should be shaken so as to insure that all will be reached by the solution. This treatment will not injure the vi-tality of potatoes which have not sprouted. If much sprouted, the tips of the sprouts are likely to be burned. Fresh sprouts will, however, start.

Combating Insects in a N.B.

G. E. Babbitt, Queens Co., N.B. My orehard is small and young, con My orchard is small and young, con-sisting of about two dozen trees that have been bearing from four to 10 years. The land has not been culti-vated since they began to bear fruit, tweet dince they began to bear fruit. Every three years I give the soil a rich top dressing of barnyard manuscul-wood ackees are also from the property of the pro-Wood ashes are also frequently spread over the ground.

I try to keep the limbs from becoming too thick and interwoven, and if I find it necessary to saw off a granch of any size the unprotected stub is always covered with paint to keep the sap from evaporating.

INSECT PESTS COMPEL SPRAYING

Until very recently the trees were never sprayed. The bud moths and tent caterpillars have become so nu-merous, however, that it is now absolutely necessary to do so. My orchard was sprayed twice last spring with was aprayed twice last sprin, with lead arsenate in the proportion of two pounds to 25 gallens of water. The first spray was applied when the buds were opening, and the second as soon as the yetals had fallen. I find, however, that these two sprays are not sufficient to prevent the larvae of the bud moth from doing considerable damage. One or two more aperable damage. One or two more aperable damage. One or two more aparable that is the post where it is as abundant as it is in my orchard. Strong soap suds was the chief means by which the tent caterpillars were destroyed. This is effective and can be prepared in small quantities, much easier than the arsenate. It also seems to make the bark smoother

BURN THE FALL WEBWORMS

BURN THE FALL SHEWOMES
The fall webworms threatened to enclose large portions of the branches
on some trees
with a torch when they were small.
This is much then there is no the
the limb and then burning it and the
web together. So the latter readily
catches fire and the limb is saved in this way.

this way.

People of the other provinces of Canada have not considered Ne@
Brunswick as having horticultural possibilities, but in my opinion many parts of the St. John Valley are well adapted to fruit growing. If our citizens were more enterprising and aggressive it might become as well known as the famous Annapolis Valley of Nava Scotia. ley of Nova Scotia. RAAAAAAAAAAAAAAAAAAAAAAAAA

APICULTURE

About Feeding Bees in Winter Miss Ethel Robson, Middlesex Co.,

A colony requires at least 30 lbs. of stores to carry it through the win-ter, about half boney and half sugar ter, about half honey and half sugar syrup, two paras sugar to one part water gives the best results. The bees store the syrup in the centre of the hive and use it for winter stores, the hive and use it for winter stores, for which it is much eafer than honey—the honey they have left for brodden the property of the honey of the h a good handrul of long grass. See to it that the grass reaches to the top of the tin. so that the bees will have no difficulty in getting out, and if it is a good colony it will easily take down all the stores it will need in one night

Always feed just before dark, as it excites the bees and induces robling if done early in the day.



...... POU ..... Points

Ianuary 1

Turkeys ar them in summ If kept in are apt to g the chickens. they do get them under the tail with coate them with a soon as give the turk have been runsects all summat, but they flesh. Fee will out

How Bes By a
Some of the
re so simple
hould be able
rst place: requently. T to ship half a alize how q hot, sunny

imes the express about let

Brood ischief. The produce argely determ ould be pack Lelled. In small lots of be used for w browns. Keep or ship them them in the be HAV

Have the egusing clean neecting the eguearly all eggst is necessary attempt to wa ows rapid evideaner if brus moist cloth. We should e usiness, be it tation for ou

ods. The produce dealer honest The c lows such a redealings between to a firm its reputation sho In fact, every market occasi into closer co of such a peris returns are no and most relia fully give then COOPERATE

There should arnest desire for a superior chief reasons trade by the cause in this the benefit and tional skill a should keep the the best times dition of the more congenial





#### terpillar ctive and nate. smoother

tota

ed to en-branches ed them re small re small.
tting off
and the
readily
saved in

ed New icultural on many are wel and ag-as well olis Val-

.....

199397 Winter ex Co lbs. of lf sugar

ne part The entre of stores. stores n honey brood e had muslin invert-ost any up will ed the in the infilled syrup

See to the top ill have id if it v take eed in , as it

Turkeys are the most profitable of all poultry; it costs so little to keep them in summer. They not only pick up their living, but they destroy mul-titudes of destructive insects.

litudes of destructive insects.

If kept in too close quariers they are apt to get lice and mites from the chickens. This means sure death to young turkeys if unattended to. If they do get lice and with the control of the control o

to young turkeys if unattended to. If they do get line and mites, grease them under the wings and around the ail with coal-oil and lard; or dust learn with a good insect powder. As soon as the oold weather comes give the turkeys plenty of feed. They have been running after bugs and in-sects all summer and have very little fit, but they have large frames and are in an excellent condition to put on flesh. Feed them all the corn they

How Best to Market Eggs

How Best to Market Legs

By a Produce Dealer

Some of the leaks in the egg trade
are so simple that any producer
should be able to check them. In the
first place: Eggs should be shipped
frequently. This is especially necessary in warm weather. It is better
to ship half a case twice a week durining the summer morths than one full ag the summer months than one full ase once a week. Producers do not salize how quickly eggs deteriorate. hot, sunny ride from farm to rail-bad may start the germs. Oftenoad may start the germs. Often-imes the express companies are care-ess about letting eggs stand in hot laces. Broody hens are a source of rischief.

pischief.

The producer should grade his own ggs. The price of a crate of eggs is argely determined by the poorest ones the crate. White-shelled eggs the crate. White-shelled eggs ould be packed in one crate and so telled. Colored-shelled in another. labelled. Colored-shelled in another, In small lots one side of the crate can be used for whites and one side for browns. Keep the small eggs home or ship them separately; don't put them in the bottom of the crate. HAVE EGGS CLEAN

HAVE EGGS CLEAN
Have the eggs perfectly clean. By using clean nesting material and collecting the eggs once or twice a day nearly all eggs abould be clean. When it is necessary to clean them do not attempt to wash them. Water takes the "bloom" from the shell and a loss rapid evaporation. They can be cleaner if brushed well or wiped with

moist cloth. We should endeavor to conduct our business, be it large or small, in such a manner that we will establish a repntation for our goods and our meth-

The producer should demand of the Chem of the Chem of the Chem of the dealer honest dealings and daily returns. The commission business allows such a range of freedom in the dealings between people that much rascality is present. Before shipping to a firm its business standing and reputation should be looked up, and when possible a personal visit be paid. In fact, every shipper should visit be in a first the control of such a perishable nature that daily returns are not at all impracticable, shad most reliable dealers will cheerfully give them.

POULTRY YARD

Points About Turkeys

ist between the parties. Demand fair and quick settlement by the transportation companies in case of date to this matter and work for the benefit of his ship.

Themmon Amounts stated that Themmon Amounts stated that Themmon Amounts stated that Themmon Amounts stated that Themmon Amounts stated that

per.
Upon all occasions the steady shipper should demand the loyalty and
support of the receiver and the receiver should use his position as agent
to work for and support the shipper.

### Poultry Pointers

Cousign the surplus cockerels to the block and leave more room for utility birds and more feed for wintering the layers. It is unprofitable to have star boarders in times of high prices.

Ashes or dust is needed in the poul-

Ashes or dust is needed in the poul-try yard of the heavy land region. Fowls delight in the dust bath and they should have this privilege. When given the dust bath they often rid themselves of lice and mites. As soon as you find a bird sick iso-late it and keep it apart from the flock. It is a good plan to have a quarantine slad, a coop, where sick fowls can be looked after until

sick fowls can be looked after until they are well enough to release. It is more profitable to keep a small flock of fowls on the farm than to keep more than you have facilities to accommodate. Too many fowls is almost sure to result in disease, which soon destroys the profits. A small flock well taken care of is safer.

### Dairy Production Increasing

(Continued from page 2)
Vice Pres, G. A. Gillespie, Peterboro; 2nd Vice Pres, Jas. Sanderson, Kemptville; 3rd Vice Pres, Nelson Stone, Norham; Secretary, T. A. Thompson, Almonte; Treasurer, Jas. R. Anderson, Mountain View, Exceptions

Thompson, Almonte; Freasurer, Jas. R. Anderson, Mountain View, Executive committee: G. A. Gillespie, Henry Glendinning, Jas. Sanderson, Ed. Kidd, M.P., Nelson Stone, Jos. McGrath, George Leggett and the president

president.

Directors: T. H. Thompson, Madoc; Willet Farley, Canifton; Chas. Anderson, Overton; Joseph McGrath, Mount Chesney; Geo. Leggatt, Newbore; J. A. Campbell, Ormond; John F. McGregor, Alexandria; Neil Fraser, Vankleek Hill; W. J. Johnston, Eamers Cornera; W. H. Olmstend, Bearbrook; Wesley Willows, Stated, Bearbrook; Wesley Willows, Charlett, J. McChenry; Edward Kidd, M. P., McChenry; Edward Kidd, M. P., McChenry; J. McChenry, J. McChen

THANGIAL STATEMENT
The report of the treasurer, Mr.
Jas. R. Anderson of Mountain View,
Ont. was presented by the auditors,
J. W. Hyatt of West Lake and J. A.
Kerr of Belleville, Ont. It showed
total receipts of 85,128.70, total extotal receipts of 85,128.70, total extotal receipts of 85,128.70, total extotal receipts of 845.22 The prilangle
sources of revenue were: Balance
from 1911. 8784.72; government on hand of \$435.22. The principal sources of revenue were: Balance from 1911, \$734.72; government grant, \$2,500; receipts from proce-cutions, \$1,024.38; receipts from pro-gram advertisements, \$320; Lanark county grant, \$200; membership fees, from the process of the process of the pro-terest, \$30.00.

terest, \$30.00. The principal items of expenditure: Perth pay sheet for directors and speakers, \$538.48; advertising and printing, \$500; contribution to G. G. Publow, expenses trip to Great Brittain, \$500. (Of this sum \$172.79 was refunded by Mr. Publow and will be have in part war's stament.) Of the sum and the principal statements of the principal statement of the principal statement and the principal statement of the pr tain, \$500. (Of this sum \$172.79 was cooperated by the problem of the sum \$172.79 was refunded by Mr. Publow and will be shown in next year's statement.) Officer's subown in next year's statement. Officer's slaries, \$400; speakers' extend the subown in t

In his report as secretary, Mr. T.
A. Thompson, Almonte, stated that
the year 1911 had been remarkable
in that dairy products of all kinds
commanded a higher price than ever commanded a higher price than ever realized before in Canada, while the proportion of poor, undergrade goods was never so small. The reports of the official prosecutors appointed by the association showed that the prac-tice of tampering with milk at the farm by skimming and watering is annually decreasing. There are still, however, too many who are guilty of this practice.

A resolution was passed request-ing the Department of Agriculture to rearrange the district divisions in some manner that will give the dairy-men of Prince Edward county the right to elect a director annually.

#### PRESIDENT'S ADDRESS

In his opening address Mr. Henry Glendinning, President of the Association reviewed crop conditions in Eastern Ontario. West of Kingston the season was decidedly unfavorable. Cheese, however, had been a record price, and the dairymen were almost as well off as they would have been with better pastures and an about the condition of their product. He among the price for their product. He among the product is producted to the product of the ing better cows, feeding them better and thus decreasing cost of production. The increased interest shown in the District Dairy Meetings last fall, Mr. Glendinning believed, was an indication of a more progressive spirit among dairymen generally. LECTURES

Wednesday was Farmers' Day. Pro-fessor Grisdale of the Experimental Farm, Ottawa, in an address on "Crop Production," covered all phases of the subject, such as selectphases of the subject, such as selecting the crops best suited to feeding the dairy cow, laying out the fields, planning the rotation, seeding and cultivating the crops. At the Central Experimental Farm Mr. Grisdale said coast of production had been cut in two by using big, labor-saving imple-

menta.

In 1910 the average crop on Canadian farms was worth \$15.50 an acre.

At the Central Farm the average value per acre was \$43. By adopting the same methods the speaker claimed that any farmer could achieve equally

good results on fairly good scil.
(Continued on page 15)

# Fow1 Pure Breeding

Sell better, are better and are a greater satisfaction to have than Fowl of mixed and mongrel breeding





# One Pair Given FREE for Only Five New Subscriptions

Farm and Dairy Each to be taken at

Your choice of any of the popular egg or utility breeds most valuable as farm poultry.

A Cockerel of the breed you want for only two new subscriptions. Get your order in right away while the good ones are to be had.

FARM AND DAIRY

PETERBORO, ONT.

# Farm Help Domestic Servants

Can be had on application to the

Salvation Army Immigration and Colonization Dept. Head Office, 22 Albert St., Toronto, Ont. Our men have given satisfaction. We bring out the best class of men and take care in the placing of them.

# 43 Choice Holsteins



Public Auction, Friday Jan. 19th

3 Miles East of Burgessville, Ont.

These cattle have been bred for per-

sistency in heavy milk flow and for symmetry of form.

The great bull Ina Tritom 2nds' Abbekerk, No. 8107, which won 1st Prize at Toronto and London 1910, is one of the animals in this choice selection. SEE LARGE POSTERS

MAJOR ALMAS and COLONEL SIPLE Auctioneers D. B. COHOE and COHOE BROS. **Proprietors** 

New Durham, Ont.

EASTERN ONTARIO

# Live Stock

# Poultry Show

Will be Held at

Ottawa, Jan. 16 to 19 1010

Exhibits consist of HORSES

DAIRY AND BEEF CATTLE SHEEP, SWINE SEEDS and POULTRY

\$11,000.00 in Prizes

# PRACTICAL LECTURES

will be given on subjects will be given on subjects relating to the various classes of Live Stock, also to Seeds, Poultry and Alfalfa

# AUCTION SALE

of 50 Pure-bred Beef and Dairy Cattle on FRIDAY AFTERNOON, JAN. 19

SINGLE FARE RATES ON THE RAILWAYS

For Programme of Judging and Lectures, apply to the Secretary

Peter White, Pres. D. T. Elderkin, Secv. Ottawa

# LATEST BOOK

General Care and Management

Farm Animals

Horses, Cattle, Sheep & Swine MANUAL OF FARM ANIMALS

The author M. W. Harper, Asst. rofessor of Animal Husbandry at The author M. W. Harper, Assi. Professor of Animal Husbandry at Corneil University, gives in this volume, of over 550 pages, a practical guide to the Choosing, Breeding and Keep of Horsee. Cattle, Sheep and Swine.

Important Chapters are those treating of the disease of all these classes of stock.

classes of stock.

Invaluable to any Farmer and
Live Stock Breeder. Of immense
practical worth—will be worth
many times its price to any stockman every year.
PRICE ONLY \$2.15 POSTAGE PAID

ook FARM & DAIRY Peterboro

# When \$15.00 Makes \$100

Jos. Armstrona. Wellington Co., Ont. Here is a proposition. Is it worth while to feed \$15 worth of grain to get a return of \$100 in increased value through the feeding of that

value through the serving grain?

Everybody says, "Yes." But some of those who say "Yes" are dropping that much money every year just because they can't persuade themselves to part with that \$15. to part with that \$15.

asse they can part with that \$15. Here is how we make \$85 that many farmer loses. We feed our foals Here is how we make \$85 that many a farmer loses. We feed our foals well during their first winter. That \$15 worth of grain that we give to a foal that the other fellow doesn't, makes a big, big difference in its value.

BUILDING FOR THE FUTURE

BUILDING FOR THE FUTURE

The first winter in a foal?s life is
the most important period of its existence. Then it develops its frame
and its digestive capacity. It has
the foundations for all its future

What chance has the foal that What chance has the foal that spends its first winter around a straw stack or trying to live on the miser-able feed it is given by a too cautious owner to make a good horse? Very little. To make a top notcher, none

whatever.
We believe that we are well with We believe that we are well with-in the mark when we state that \$100 is lost if the colt is stinted in its feed the first winter. We have talked this matter over with other horsemen and they agree with us that \$100 at

least is lost.

Most of us farmers are quick to see
a bargain. Giving \$15 and getting
\$100 is a bargain of the first water.

Let us not miss it.

### Examine Cows Before Breeding

Too much care cannot be exerciin thoroughly examining a cow before th thoroughly examining a cow before breeding her for the reason that if a cow is bred and she is not in a healthy condition, it is just a question of time before her infected organs are overpowered by the germs of disease.

powered by the germs of disease.

A cow whose discharge contains any drops of pus or checolate colored matter is not in a fit condition to be tred. The unnatural discharge indicates that her genital organs are inected, and consequently

fected, and consequently are not in a healthy, breeding condition. Cows having a catarrhal discharge are usually indicated by matter being adhered or matted to the tail. These adhered or matted to the tail. These conditions should be given prompt at-tention and the tail should not only be washed off but the genital organs should be cleansed with an antiseptic

solution. These conditions are often brought about by simple causes such as retention of the afterbirth. If permitted to freshen in a cold, damp stable, or outside when the weather is cold, they are very apt to contract sufficient cold to cause them to retain the afterbirth, and whether this be removed by force or otherwise. there is the afterbirth, and whether this be re-moved by force or otherwise, there is always danger of a portion of it re-maining. This sets up a catarrhal condition of the genital organs and the above conditions the brought about, which not only reduces the actual earning capacity of a cow, but farmers could afford and put them in affects her to such an extent as to grade herds.—James Rettie, Norwich cause her to be a dangerous animal to Roberts in Kimball's Dairy Farmer

### The Southern Ontario Holstein Breeders' Great Sale

great many unusually well satis-buyers and a general air of satis-ion amongst the sellers were the raction amongst the sellers were the result of the great consignment sale of Holstein cattle held at Tillsonburg on Tuesday, Jan. 2nd. Higher prices have been realized at former sales and

grade herds.—James Avenue,
Ont.

"On the whole prices were satisfactory. But, like all sales, some went higher than we expected and other not so high. But things averaged up fairly well, especially females. There were some great bargains in males. We had about half too many males.

mates in sale.

"For myself, I got about \$800 more
than I looked for. We had too many
in for a one-day sale, but this is only
our first one so think we can improve
on the next sale, for we are already



For One Who Knows How There is Money in Horses of This Type For Une Who Knows flow there is Money in Plorses of this type Mr. A. S. Turner, Eychman's Corners, Ont., who bred and raised the marker illustrated, has had great success as a breeder of light horses. This mare. Vera B. he sold recently for \$2,000. Read more concerning Vera B. in the article on page 22.

and in fact there were most too many and in fact there were most too many cattle in the sale for a one-day event. The attendance was great. A conservative estimate of the correct would be from 1,500 to 2,000. Many buyers from a distance were on hand. Col. D. L. Perry of Columbus, Ohio, was the auctioneer

Everything about the sale was not Everything about the sale was not all that it might have been in the way of arrangement, but having gained the experience of this, their first combination sale, the Southern Ontario Holstein Breeders will be in fine abape for conducting the event next year to the best possible advantage.

Most of the cattle offered were a superior lot. Stabled in the big Roll-er Rink, they were a grand sight and afforded an exhibition more inter-esting than some large shows.

The general feeling of satisfaction

The general feeling of satisfaction over the sale by those who consigned animals may be learned from the following opinions expressed to Farm and Dairy

and Darry.
"I consider the consignment sale
was a decided success, although many
finely bred bulls did not bring the
price near what they should. The boys were game, though, and said, 'Let them slide.' Now some people Tet them slide. Now some people are kicking themselves because they did not get their mouths open and bid. They will know what to do next year and bid in time. Many were

bid. They wan bid in time. Many were year and bid in time. Many were wanting stock after the sale was over. "This sale company has abown they mean business, and next year's sale should be even better. Any kinks will be straightened out for another sale." —Geo. Rice, Tillsonburg, —Geo. Rice, Tillsonburg, The result of our sale shows a great demand for dairy cow of high quality. Prices were good for the seller ty. Frices were good for the seller ty. And the bight for the Luyer. Bulls

ity. Prices were good for the selle and not too high for the Luyer. Bull went considerably below their value-Bulla a thing that buyers will realize when they get their purchases home. The best bulls went at prices ordinary

"The females at the sale realized good prices in general, and the breed-ers were highly satisfied with the result, but bulls-all of the real suit, but buils—all of the real good bulls—went at give-away prices. Some buyers seemed to think four legs and a pedigree were all that a bull re-quires."—E. Laidlaw & Sons, Aylmer quires."-E West, Ont.

The animals sold, the prices and buyers are given in the following: CONSIGNED BY M. L. HALEY

CONSIGNED BY M. H. HALEY

Aaggie of Riverside 2nd, May 24, 1906, \$205, R. Brookfield, Tillsonburg, Queen of Oxford, March 15, 1904, \$200, A P. Gray, Britton. Alberta, June 8, 1899, \$135, J. H. Tremb-Alberta, June 8, 1899, \$135, J. H. Tremb ley, Smithville, Artalissa 2nd, Dec. 2, 1905, \$270, W. F Elliott, Toronto

(Continued on page 21)

CITY DE \*\*\*\*\*\*

Mille P Kindly tell ilk at Mon scere supply live a maxime winter su allon for each entract, and ents for each entract. This ensiderably.

The dealer The dealer ed to pay per eight-gal plants in Te ovember t \$1.65 deliver are required nuantity of pected to live though there alty. The however, to Producers

ceiving 20c a the producer quantity of n e shippers they have on

To Find Jno. Miche Those who prices in da those who are business, shou trate the me these are of will gradually increased the products. are like spective buyer of an opportu your goods The man wi of butter will pective custo

as the quali it to have, and ducer of suc samples of th If the prode e milk is pr ated, whitewas ws which at uberculosis; if elean, healthy ly after milkin inspector, an patronage is couch facts are

Our Le

Right to Pur Is it allowable punish a child whool? Is a to fill in every re and a quarter we come home at to the bush as enough? Can a he does not liv but owns land ont.

easonable degre rwise prope

\*Extract from Michels, Editor of Egg Journal, befo Dairy Farmers' C



# Do You Know That From Cottonseed! Meal

Protein can be had more cheaply than from any other feed stuff? Compound your grain ration with

Owl Brand Cottonseed Meal!

F. W. BRODE & CO. Memphis

Tennessee Write for our booklet, " Science of Feeding

1. 1012

ut them i ro cotice some wen average females

too man \$800 motoo many n improve ual sale

alls I eyer

sale And And I

satisfac-ie and all them."

pe

ne mare is mare e article i Dairy

realized the re-al good s. Some egs and bull re-Aylmer

es and ing:

22, 1904, B.C. 24, 1906.

8210, T

29, 1902.

Logan

5, Mr.

7, 1907.

8, \$145.

1909. ane 10,

2, 1910.

. \$120

ov. 25.

11, 88

, 1911.

1, 850,

1906

000, A remb

W. F.

PV

Milk Prices In Our Cities
Kindly tell me the prices charged for
milk at Montreal and Toronto. The producers supplying Ottawa by contract receive a maximum price of 20c a gallon for
gallon for each gallon short on the weekly
contract, and a reduction in price of eight
cents for each gallon in text comes of weekly
contract. This reduces the average price
categorithm "Subscriber", Carleton Co.,
Carleton Co.,

The dealers of Toronto have decided to pay producers for milk \$1.70 per eight-gallon can delivered at their plants in Toronto for the months of plants in Toronto for the months of November to April inclusive, and \$1.65 delivered at the Union Station for the same months. The producers are required to guarantee a certain quantity of milk a day and are ex-pected to live up to that amount, al-though there is no forfeiture or pen-alty. The dealer reserves the right, however, to ask the farmer at any time to hold back part of his con-tract.

Producers around Montreal are repeiving 20c a gallon delivered in the pity for the winter months. Some of the producers guarantee a certain quantity of milk a day. In most cases the shippers send whatever quantity they have on hand.

To Find a Good Market\*

Jno. Michels, Miscoukee, U.S.A.
Those who are aiming for high
prices in dairy products, especially
those who are rather new in the dairy
business, should as a rule not ask high
prices at the start. First demonstrate the merits of your product. If
these are of a high order, consumers
will gradually respond to the demands
to the consumer of the start of the contime of the contract of the contract of the constart are likely to, discourse spective buyers and thus deprive you
of an opportunity to prove the value
of your goods. Jno. Michels, Milwaukee, U.S.A.

spective buyers and anus usparse ava-of an opportunity to prove the value of your goods.

The man who makes a high quality of butter will have to prove to pro-spective customers that the butter bas the quality which he represents it to have, and it will pay the pro-ducer of such butter to furnish samples of the produce.

If the producer has a high quality of milk and cream, a little advertis-tion of the producer has a high quality of milk and cream, a little advertis-tion of the producer has a high quality of milk and cream, a little advertis-tist, and the producer has a high quality that the producer has a high quality to milk and cream, a little and com-cover which are regularly tested for suberculosis; if the milk is handled by elsen, healthy attendants and is thor-oughly cooled and serated immediate-by after milking; and if, in addition, all this is certain to follow when inspector, an increase in prices and Inspector, an increase in prices and patronage is certain to follow when such facts are placed before the pub-

# Our Legal Adviser

Right to Punish Child in School Is it allowable for a school teacher punish a child because it cannot get school? Is a teacher right in keeping punish a child because it cannot get to sphool? Is a teacher right in keeping a splid in every recess to make up an hour and a quarter when a mother told her to come home at three o'clock and not go to the bush as the child was not woil snough? Can a person act as trustee if the does not live in the school section but owns land there?—D. L., York Co., "...

A teacher is entitled to inflict a a teacher is entitled to inflict a reasonable degree of punishment upon a pupil in order to enforce obedience, otherwise proper discipline could not

\*Extract from an address by Mr. Jno. Miohels, Editor of the Butter, Cheese and Egg Journal, before the recent American Dairy Farmers' Convention at Chicago.

CITY MILK SUPPLY

be maintained. Such punishment may be either corporal or by detention in the acher also has power to suspend any pupil guilty of persistent opposition that the school during recess or cherwise.

DEPARTMENT

Milk Prices In Our Cities

Kindly tell me the prices charged for milk at Montreal and Tronto. The promisin at Montreal and Tronto. The producers supplying Ottawa by contract reading an against to decide. If the parents and the punishment is reasonable or not is found to the parents may appeal against the punishment is reasonable or not is found to the parents may appeal against the punishment is reasonable or not is found to the parents may appeal against the punishment is reasonable or not is found to the parents may appeal against the punishment is reasonable or not is found to find the parents may appeal against the punishment is reasonable or not is found to the parents may appeal against the punishment is reasonable or not is found to find the parents may appeal against the punishment is reasonable or not is found to find the parents and the parents may appeal against the punishment is reasonable or not is found to find the parents and the parents may appeal against the parents may appeal against the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is reasonable or not is found to find the parents and the punishment is to hold office.

The best time to have been the hold office.

The teacher aloud more is such cas

HORSES Can You Doctor Them
Train Them Teach Them Tricks

Would you like to have a good Veterinary and Horse Doctor Book telling about the Diseases of Horses, Cattle, Poultry, Sheep and Swine, and giving the remedies, the cures for all these diseases?

Would you like to know all about Gleason's System of Practical Horse Training?

THEN YOU WILL WANT

# Gleason's Veterinary Hand-book and System of Horse Taming A book of 520 pages (71/4 x 5 inches) with illustrations

Which we have arranged to GIVE YOU FREE as described below

Every man who has a horse or other farm animals will meet some day (and it may come soon) when it will be worth many dollars to have at hand a reliable doctor book to which he can refer and be able to cure sickness.



In order that you may have such a horse Doctor book, we have completed arrangements whereby we can supply you with a copy of Gleason's famous Horse Doctor book at no cost whatever to you. Some of the things this book will teach you are:

PRACTICAL HORSE TRAINING

How to Cure Bad Habits (including Balking, Biting, Cribbing, Halter Pulling, Kicking in the Stall and in Harness Running Away, Shying; etc.)

Breaking and Training Colts Whip Training

How to make a Horse Trot Square

Training Trick Horses

(How to teach them to waltz, to lie down, to bow, to sit up, answer questions, to kiss you, to shake hands; etc.)

Hints upon Horse Shoeing. Short Pointers for Horsemen. DISEASES OF THE HORSE

(Over 200 pages describing all the diseases of the horse, telling the symptoms, cause, and giving the treatment or cure.)

Diseases of Cattle. (74 pages giving full instructions about how to cure them, describing symptoms, cause and treatment.)

Diseases of Sheep.

Horse and Cattle Medicines.

(Describes the use of over 200 drugs and medicines used in veterinary practice. Gives the doses for each.

Prescriptions and Preparations.

Diseases of Poultry. Diseases of Swine. Diseases of Dogs. Diseases of Birds

This is a valuable book containing most valuable information. It is not as well bound as we would like, being in paper cover, but it tells you what you need to know.

It is not for sale. We will give it to you free in return for only two (2) New subscriptions to Farm and Dairy, each taken at only \$1.00 a year.

Our regular subscribers to Farm and Dairy may have this book free in return for their own renewal subscription sent now, and one New subscription, each at our rate of only \$1.00.

We expect a big run on this Veterinary Book. Every farmer will want it. Every farmer should We may not be able to hold this unusual offer open after this month. So send in your sub-

scriptions at once. This great book will then be mailed to you postage paid-absolutely free to you.

If the book does not satisfy you as worth your while or the new subscribers do not like Farm and Dairy we will give your money back.

Get busy at once and get this valuable book. It may be worth hundreds of dollars to you during the next few years.

FARM AND DAIRY - Peterboro, Ont.

(12)

36

AND RURAL HOME

Published by The Rural Publishing Com-0

1. FARM AND DAIRY is published every Thursday. It is the official organ of the British Otiumbis, Manitoba, Essever and Western Ontario, and Bedford District, Queoco, Dairymen's Associations, and of the Canadian Hoistein, Ayrshire, and Jer-vey Cattie Breeders' Associations.

acy Cattle Breeders' Associations.

1. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.20 a year. For all countries, except Canada and Great Britain, add \$60 for postage. A year's subscription free for a ciub ot two

ear's subscription iree for a state of the subscriptors.

J. REMITTANCES should be made by fost Office or Money Order, or Registered catter. Postage stamps accepted for amounts less than 31.0. On all checks dd 20 cents for exchange fee required at

and M cents for exchange fee required at the banks.

1. CHANGE OF ADDRESS.—When a hold and new addresses must be given.

5. ADVERTISING RATES quoted on application. Uppy received up to the Friday preceding the following week's issue.

WE INVITE FARMERS to write us or agricultural topic. We are always seed to receive practical articles. CIRCULATION STATEMENT

CIRCULATION STATEMENT
The paid subscriptions to Farm and
Dairy exceed 45,586. The actual circulation of each issue, including copies of the
paper sent subscribers who are but slightym arrests, and sample copies, varies
to a sent subscribers who are but slightym arrests, and sample copies, varies
to a sent subscriber and sent subscription rate. This our mailing listdo not contain any dead circulations
abovers detailed staffurment of the directbeautiful sent subscription of the successive sent subscription or request. mailed free on request.

mailed free on request.

OUR PROTECTIVE POLICY
We want the readers of Farm and Dairy
to feel that they can deal with our actiesers' reliability. We sty to admat to our
columns only the most reliable advertises
to describe the sty to admat to our
columns only the most reliable advertises
to dissatisfied with the treatment he reoutves from any of our advertisers, we
will investigate the circumstances fully.
of our advertisers are unreliable, even in
the slightest degree, we will discontinue
timediately the publication of our advertisers are unreliable, we not
the slightest degree, we will discontinue
to deal the properties of the style
columns of the publication of our advertisers are unreliable, when to
table advertisers are unreliable, we not
table advertisers are well. In order to be
antitled to the paper. Thus we will not
table advertisers as well. In order to be
antitled to the benefits of our Protective
Policy, you need only to include. In advertisers
your advertisement in Farm and Dairy.
Complaints must be made to Farm and
any unsatificatory transaction, with
proofs thereof, and within one month
from the date that the advertisers
are guarantee. We do not undertake to
adjust triting differences between readears and responsible advertisers.

FARM AND DAIRY OUR PROTECTIVE POLICY

#### FARM AND DAIRY PETERBORO, ONT.

#### BAD AIR DISEASES

Such diseases as pneumonia and common colds that give so much trouble and which we have come to regard as winter diseases and connected in some way with the cold weather are simply bad air diseases. One of the most pressing needs in country homes at this season of the year is better

In the summertime we keep our windows open and so escape pneumonia and other bad air infections. in the winter the windows are shut down tight, storm doors and storm windows are put on to keep out what little fresh air might find its way into the house, and as a result people die by thousands from these bad air dis-

We would not think of washing our hands and our face in filthy water. But we are content continually to bathe our lungs in dirty air and is here an enticing field of oppor-chinery. But we should avoid unthereby make welcome some of the tunity for men of proper training in der-capitalization as well. There is a

We are getting away from our fear their labors will result in just as much and better able for our work when we sleep with the bedroom window as wide open as we have it in the summer and insist on having the living rooms thoroughly ventilated.

When we have all found the connection between bad air and "cold weather" diseases, good ventilation will be considered a necessity in all country homes. Let those of us who now know the dangers that lurk in the air of close rooms set a good example to those who do not by ventilating our own homes. And let us not be backward in preaching the gospel of fresh air as well as practicing its precepts.

#### FARMERS ON ELEVATOR COM-MISSION

The Dominion millers, in annual convention recently, endorsed the idea of a Government Commission to regulate the running of terminal elevators in Canada. In their resolution they suggested that a member of their association should be appointed as one of the commissioners and suggested the name of the secretary of the association.

Even more interested than the millers in the running of the grain elevators are the farmers of Canada. The proper regulation of terminal elevators means more to them in dollars and cents than to any other class. At least one, and better two, farmers should be included in the personnel of the new elevator commission when it is created. We farmers should make ourselves heard in the securing of representation on that commission both through our farmers organizations and by our individual influence exerted through the representatives of our respective districts at Ottawa.

#### IMPORTANCE OF PLANT BREEDING

We do not give enough attention to our seed grain. It has been estimated by an eminent German authority that Germany has increased her crop production in the last forty or fifty years twenty-five per cent. through plant breeding alone. The experience of European countries, such as Germany, should do much to convince us in Canada that we cannot afford to disregard heredity in seed grain any more than we can in live stock. The same laws apply to both.

We in Canada are just beginning to realize how important it is to have "well bred" seed grain. The corn growers of South Western Ontario and the members of the Canadian Seed Growers' Association are making a good start along the lines of scientific plant breeding. Valuable work is being done by all of our experimental farms in the improvement of varieties of field crops.

There is need, however, in every locality of men who will devote themselves to the improvement of the crops for their particular sections. There worst diseases that flesh is heir to. | the improvement of field crops, and happy medium.

of fresh air. More and more of us are good to agriculture as have the labors finding out that we are more healthy of our breeders of pure bred live of the grain harvested in Ontario was stock. And their returns in dollars and cents will be gratifying.

#### "KILLING THE GOOSE"

Does our system of farming make any provision for returning to our soil the elements of fertility that year by year we are extracting therefrom? If not, we are impoverishing our land. and sooner or later it will refuse to yield further profits. We will then be face to face with the problem of building up a run-down soil.

The problem of conserving the fertility of our soils is the problem that should receive first attention from us farmers. It is by the products of the soil that we live, and to rot our soil of nitrogen, phosphoric acid, potash and the other elements of soil fertility is to rob it of the means of giving us a living. Soil robbery is "killing the goose that lays the golden

The best method of conserving soil fertility is by selling from the farm those products that carry away the smallest proportion of the elements of plant food. This precludes selling all such products as hay, grain or potatoes. The sale of such manufactured products as pork, beef or live stock carries away comparatively little fertility. The dairyman who sends his milk to the cheese factory or his cream to the creamery and makes good use of the by-products, whey or skim-milk, is selling a smaller proportion of fertility than any other class of farmer. When we sell a ton of hay we sell four to eight dollars' worth of fertility. But in a ton of butter there is only forty-eight cents' worth of fertility. Dairy farming is the ideal way to conserve soil fertility or to build up a run-out farm.

The number and efficiency of the machines that are now being placed on the market for doing all kinds of farm work is most Too Much wonderful. We farmers are coming to Machinery realize that an up-todate equipment of farm machinery

is absolutely necessary to get the Lest results from our farms. There is such a thing, however, as going "machinery mad." We should avoid locking up too much capital in expensive machinery that is used only on a few days in the whole year. We recently came across a farmer who was obliged to sell out to pay his debts; and his neighbors were all agreed that he failed because he had too much money in his machinery. Every new machine that came on the market he purchased it. Quite a few expensive implements he was able to use only a few days in the year. They were not a paying investment. We should figure out just what machines are indispensable on our farms or will yield a good return on capital invested and so avoid over-capitalization in ma-

Good seed grain will be scarce next spring. Due to the dry weather, much

light and chaffy; this Good is particularly true of Seed oats and barley. good seed is to be had for next spring's seeding, it will be necessary for our farmers to use the fanning mill more extensively for the cleaning and selection of seed grain than for many years past. The increased crop that will result from good seed will make it worth our while to spend a few spare hours, or even days, this winter fanning out by grain to get the best of it for seed.

It may be necessary for us to earn our bread by the sweat of our brow. but we have not been told that we should earn the bread

Get Full of other people. When Value you make a dollar the dollar belongs to you, and no person has a right to take it from you unless he gives in return something equal in value.

Many unscrupulous advertisers by their clever advertising sell goods and do not give a fair value for the money they take. Farm and Dairy does not allow such advertisers the use of its columns. See our Protective Policy on this editorial page.

The Oregon Agricultural College will give a short course in highway construction. This course is designed for the benefit of farmers who are interested in improving the highways in their communities. The highway foremen in particular will be urged to take this course. If this move on the part of the Oregon Agricultural College proves a success, it should be adopted in Carada

### A Thought for Hired Men

(Hoard's Dairyman)

ise old farmer used to say to us that the first thing he studied hired man was the way he "human natured," as he called it. "If his natured, as he cance to mind and spirit are all right, if he is earnest and willing. I don't care so much about his skill. I can teach him that. I have always observed," he said, "that a live, good hired man will make a good farmer. I never saw a poor hired man that made a good farmer."

We wonder if hired men over think of that? of that? These days, while they are working as hired men, are their schooling days. These are the days that make or break their ability to do for themselves. It is just as necessary for a young man to acquire the right habit of thought and right habit of thought and judgment as it is to know how to do the work.

"Efficiency" is the word. You can't acquire the habit of inefficiency you work for another man and then take on efficiency when you work for yourself. You have trifled with work yourself. You have trifled with your spirit and purpose in life, and such trifling is sure to tell further on.

Look around you, boys, and see if the poor farmers you know were not that kind of hired men? It is the spirit of the man that tells. It tells everywhere in life and in all things. It tells in a horse and in a state man. Show us the man who has the true spirit of a farmer and we will show you a success whether as a hire man or in after life running his own

Does and ab Do y PLE OF Progre emulate adopt th tising.

lanua

The in rate car for vary always minds of that the an adva rate, by tising at Anothe the adva

an adve up to use within a Someti signed f lower waste. Most the inter To pla

the or

where al

guarantee

arm an years fol f chargi snace. A few em, re THE FLAT R Last w nprogre ho aske tion if he tract.

Natura her tha In ado which w our year the police eeklies The Ora Pierce's ournal. -yes, ar Canadian he Mont business

nd on t This sure Ours v LAT rat We wil ve policy the SAM TO - THI Ansis.

And we ressive olicy, w nd Dairy "A Pap

With ev narket the orth of grain is fe duce is so ents wort eather, much

Ontario was

chaffy; this arly true of

g, it will be

s to use the ively for the

seed grain

st. The in-

result from

worth our

re hours, or

r us to earn

f our brow.

old that we

ople. When

a dollar

belongs to

a right to

he gives in

in value.

ertisers by

ll goods and

r the money

iry does not

e use of its

ctive Policy

ral College

in highway

is designed

who are in-

highways in

e highway

be urged to

move on the

ultural Col.

should be

ed Men

to say to us udied in a he "human "If his

ght, if he is

n't care so n teach him

hired man I never

over think iie they are

are their

re the days bility to do it as neces-acquire the d judgment

d judgment

You can't nency when and then u work

with your and such

and see if

w were not It is the s. It tells

s. It tells

ho has the

as a hired ng his own

in)

t for seed.

fanning out by

barley.

XI

Does business on the "open and above board' appeal to

Do you favor THE PRINCI-PLE OF THE SOUARE DEAL?

Progressive publishing houses emulate this ideal when they adopt the FLAT rate for advertising.

The intricacies of the old time rate card charging various rates for varying amounts of space has always bred suspicion in the nds of advertisers. They fear that the other fellow is getting an advantage; getting a better rate, by which he obtains advertising at a lower cost.

Another disadvantage: To get the advantage of the lowest rate advertiser must tie himself up to use a large amount of space within a specified time.

Sometimes this extra spacesigned for in order to get the rate-represents sheer lower waste

Most decidedly this is not in the interest of the advertiser.

To place our business right out in the open: To put it on a plane where all can understand: To guarantee a square deal to all, Farm and Dairy has for some years followed the flat rate basis of charging for its advertising

A few advertisers, it would eem, require to be educated up THE SOUNDNESS OF THE FLAT RATE PRINCIPLE.

Last week we were "called" unprogressive by an advertiser. who asked us to give consideration if he placed a 5000 line con-

Naturally we refused to give her than our low FLAT rate

In adopting the FLAT rate. which we have followed now four years, we are in line with the policy of the great farm reeklies in the United States. The Orange Judd publications, Pierce's Weeklies, The Farm Journal, The Breeders' Gazette -yes, and several of our leading Canadian publications, including the Montreal Weekly Star, take business on the FLAT RATE, and on the FLAT rate ONLY. This surely is progressive.

Ours will continue to be the FLAT rate.

We will continue this progressve policy and take business on the SAME-PRICE-TO-YOU-AS-TO - THE - OTHER - FELLOW Ansis

And we will continue our progressive result-bringing editorial policy, which will make Farm nd Dairy continue to be

"A Paper Farmers Swear By"

# PUBLISHERS' DESK

Good Things for You This Year

Now that we have begun the New Now that we have begun the New Year, a great many of our people may be interested to know of some of the special things we will have for them in Farm and Dairy during this year of

More attention will be given to borses in Farm and Dairy this year than hitherto. We have engaged the services of two prominent and well-known veterinarians who will write a special series of articles dealing with a proper property of the services of the

The articles for one of these series are already written and are in our office. They deal with such subjects as "Corn Silage as a Food for Horses," "Fattening Drafters," Horses," "Fathening Dratters,"
"How to go about Sizing Up a Horse
when you go to Buy One," "How to
Administer a Ball," "How to Give a
Drench." A number of the articles
will deal with various vices of horses
and how to control them, these including balking, criboung, kicking,
halter pulling, etc. Later on, articles
will appear on that dread disease of
long, Eareld, and How to fandtone, Fonds thirt have lost their mothse Fonds thirt have lost their moth-

The Panns Describe
Twenty-five of the descriptive articles, illustrated, about the prisewinning farmers in the Inter-Provincial Prize Farms Contest of last year,
will be published in Farm and Dairy
during the next few months. Each of
thirty-one prise wanning farmers have
written or will write for us three
essays each on some phase of their
farm work with which they have been
are required of these successful farmer by the rules of the competition.
They will shortly appear in these columns, ninety-three articles in all, being published from week to week as ing published from week to week as space permits.

CARTOONS ON A GREAT QUESTION We have arranged for a special se-We have arranged for a special series of carbons and have a number of these on hand already, which will appear from week to week, illustrating the points brought out in the special articles now appearing weekly in Farm and Dairy on that great question of "Why Boys Leave the Farm."

These strikes These articles and cartoons are the result of several years of study of a result of several years of study of a great economic question in which our farmers are vitally concerned and be-cause of which our farmers and work-ing people are being unduly crushed and kept from their rightful own. Probably many of your neighbors would be glad to know about these articles and to read them. We would greatly appreciate your kindness if greatly appreciate your kindness if a company of the property of the property of the seventy of the property of the property of the seventy of the property of the property of the seventy of the property of the property of the property of the seventy of the property of the property of the property of the seventy of the property of the property

LAUSTRATIONS AND ARTICLES
Our illustrations will be of our usual high quality; reproduced on the fine calendared paper we use, they show up almost as good as original photographs. Our articles will continue to be of that short, condensed, timely, practical nature for which Farm and Dairy is noted, and will be contributed by the most successful farmers in this country.

Space will not permit us to tell you of the many good things we will have for you this year at this writing. We will tell you of more at another time. ILLUSTRATIONS AND ARTICLES

With every ton of grain sold on the market the farmer sells from \$5 to \$10 worth of soil fertility. When the grain is fed on the farm and the produce is sold in butter, less than avecents worth of fertility is sold.

1912 Specials.—Beginning with february 1, we will again publish a series of Eight Special Magazine Numbers of Farm and Dairy. The list of these is as follows: Poultry Contents worth of fertility is sold.

(Concluded on page 11)

# DE LAVAL Cream and Butter Triumphas Usual **At National Dairy Show**

Cream and butter produced through the use of DE LAVAL CREAM SEPARATORS made the usual clean sweep of all Highest Awards at the great 1911 National Dairy Show (including the annual convention of the National Buttermakers Association) held in Chicago October 26th-November 4th, just as has all ays been the case since the organization of the National Association in 1892.

## WHOLE MILK CREAMERY BUTTER

The sweepstakes or highest award in this case was won by A. J. Anderson, Otisco, Minn., with a score of 97.50, who says: "I have been using De Laval separators for ten years and would not think of using any other."

### FARM SEPARATOR BUTTER-

The sweepstakes in the gathered cream factory made butter The sweepstakes in the gainered cream nattory inductions class was won by R. O. Brye, of the Readstown Creamery Co., Readstown, Wis., with a score of 98.33, this prize winning butter being made from the cream of farm patrons using De Laval separators exclusively.

Mr. Brye says: "I was raised on a dairy farm, where my father used a De Laval separator, and my own separator experience covers a period of twenty years. I have found the De Laval machines everything that is claimed for them."

## HIGHEST PRIZE CREAM EXHIBIT

The highest award for cream was made to Nichols Bros., Bloomfield, Ky., with a score of 98.80, who say: "If we didn't use the best separator we could not have made this record. Our experience has proved the De Laval the only separator that 'delivered the goods.'"

# DE LAVAL PRODUCTS ALWAYS SUPERIOR

Would-be competitors are naturally forced to make many claims for their separators. But the superiority of De Laval cream and butter, as evidenced by the winning of all highest prize awards the world over for twenty years, is something so overwhelming as to be indisputable and unanswerable even by the most reckless would-be competitor

173 William St. Montreal, Can.

THE DE LAVAL SEPARATOR CO. 14 Princess St. Winnipeg, Can.

# SKATES Given Away Free

to every boy and every girl and every other person too who reads this advertisement and would like to have right now a brand new pair of skates. HOCKEY SKATES OR SPRING SKATES, which do you want? Take your choice of either, kind. We will give one pair to you FREE in return for only one new subscription to Farm and Dairy taken at \$1.00 a year.



A better pair of Athletic Skates of extra quality steel and beautifully nickle plated— for only two new subscriptions.

These are elegant skates. You will be proud to own them.

See a friend or an engishor.
Get him to take Farm and
Dairy for one year (including
all our Special Magazine Numbers and Illustrated Supplements), send us his subscription
and we will send your skates
at once. You can have them in

We'll do our part. Send in the new subscription and get ready to enjoy the fun of hav-ing a brand new pair of bright shining skates right now while the skating is good.

In ordering skates send the size of the boot in inches from the extrem heel to the extreme toel

**FARM AND DAIRY** 

Peterboro, Ont.

## GASOLINE ENGINES

10 to 50 H.P. Stationary Mounted and Traction



WINDMILLS Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc. COOLD. SHAPLEY & MUIR CO., LTD Brantford Winnipeg Calgary

## FOR SALE

Two creameries in Central Alberta about half way between Calgary and Edconton. Good dairy district and good paying business. Apply to

J. P. MILLAR BENTLEY, ALTA.

FARM DAIRYING A New Book by Laura Rose
Price only \$1.35 postpaid. Order through Book Dept., FARM AND DAIRY, Peterbore, Ont

CALVES RAISE THEM WITHOUT MILK steele, Briggs Seed Co., I.td., Toronto, Ont.



SYNOPSIS OF CANADIAN NORTH-WEST AND REGULATIONS

WEST AND REGULATIONS

ANY DEERSON who is the sole head of a hazily, or any male over 15 years old a label of the sole head of a nutrie section of available Domestic of the sole of the so

Detailed the control of the control

A homesteader who has exhausted his homestead right and cannot obtain a pre-emption, may enter for a purchased homestead in certain districts. Price \$3.00 per acre. Duties—Must reside six months in each of three years, cultivate fifty acres and erect a house worth \$300.00.

W. W. CORY. Deputy of the Minister of the Interior N. B.-Unauthorised publication of this advertisement will not be paid for.



Butter makers are invited to send of contributions to this department to a sak questions on matter relating to the send of the

# More About Creamery Grading\*

C. Marker, Dairy Commissioner, Alta.

In establishing standards for the In establishing standards for the grades of cream when paying for cream according to quality, we must necessarily be guided by local conditions and the ultimate market to which the butter is to go. We should also make the grades so few and broad and clear that the patrons will

broad and clear that the patrons will readily understand what they mean. In Allerta wadopted at the be-ginning of the so soon 1910 the follow-ing definition for the grades as be-ing sufficient for present require-ments. Any buttermaker in charge of ments. ments. Any buttermaker in charge of a creamery who is competent to make first-class butter is also competent to properly and equitably place the grade on the cream :

DEFINITION OF GRADES

First grade—Oream, preferably sweet, from which first-class butter-can be made by a competent butter-maker. The flavor to be clean and fresh, and consistency smooth and oven. Second grade—Oream, sour or old-ex, bitter in flavor but of a smooth and even consistency. Cream which is not clean, which is lumpy, very stale or old-the scene which is butter or musty in flavor would not be accepted. not be accepted.

In order that the creamery patron In order that the creamery patrons may become familiar with the grading system in use at the creamery in which they are interested parties it is advisable that arrangements be made to have them visit the creamery occasionally and when practicable made to have them visit the creamery occasionally and when practicable take part in the grading. This will apply particularly to the patrons who, as a rule, supply cream of an inferior grade. It is by comparison that we learn and if such patrons be given we learn and it such patrons so given an opportunity to examine and com-pare a few samples they will soon learn not only what is understood by first grade, but they will also learn from the buttermaker how they, them-salves may be able to produce and handle their cream so as to get it into the premium class.

SAMPLES FOR GRADING At some creameries the farmers de-liver their cream individually or form

liver their cream individually or form small clubs in each neighborhood to take turn about and bring the indi-vidual pateron's cans into account cry. This is the ideal system of the pateron of the companion of the has much to commend it. It enables the buttermaker to keep in constant touch with his patrons, and where the right relations exist his criticism and suggestions recarding the production. suggestions regarding the production and handling of the cream will be received in the proper spirit and very received in the proper spirit and relatively acted upon. In such creameries the buttermaker has also personal les the buttermaker has also personal control of, and assumes the full responsibility for, the weighing, the testing and the grading of the individual lots of cream received.

The next best system of cream de-livery is that of organizing regular livery is that of organising regular cream routes and employing a collector to call at the house of such patron on his route on stated days of each week and pick up his cans of collector's arrival at the creamery the buttermaker will weigh, sample, and grade the cream from ple and grade the cream from patron's cans. The principal each patron's cans. The principal disadvantage of this system is the abdisadvantage of this system is the ab-sence of the personal relation between the buttermaker and patrons. Un-der this heading we may consider the cream shipped in by rail in individ-ual cans. While the element of per-\*Extract from an address at the Domin-ion Dairy Conference. More of this ad-dress will appear in later issues of Farm and Dairy.

Reseaseseseseseseseses sonal contact between the patrons and Creamery Department
Butter makers are invited to send
oak questions so this department to
ake questions and to suggest subbutter making and to suggest subbutter making and to suggest subto drow discussion. Address letters
to drow discussion.

WHEN CHEAR TANKS ARE USED
In cases where the cream is collocked from the patrons by cream
haulers and poured in the samples
and poured in the samples
which are taken and brough
creamery for testing purposes are also
creamery for testing purposes are also
to be used for grading each delivery.
It is important, therefore, that the
samples be thoroughly representative samples be thoroughly representative in point of richness, but they should in point of richness, but they should also reach the creamery in practically as good physical condition as the bulk of the cream from which they were taken, and any material rise in the temperature of the samples should be

This brings up the problem of de This brings up the problem of de-vising some inexpensive, yet efficient means for keeping the initial tem-perature of the samples fairly con-stant while in transit, even during the warm summer months

In this connection the use of insulated sample cases has been suggested, with ice as the cooling mention but a serious weakness in this method lies in the fact that it is not aiways practicable or convenient to secure ice or to replenish it in the sample cases along the cream routes. Insu-lated boxes without no conling me-dium would be of very little use. Wa-ter, however, is obtainable at overy farm house and is in itself a good cooling medium if properly used.

# Good Things for You This Year

(Continued from page 13) den Number, March 7; Special Dairy Number, April 4; Farm Improvement Number, April 4; Farm Improvement Number, May 2; Farm Machnery Number, June 6; Exhibition Num-ber (Our Fifth Annual) Sept. 6; Household Number, Oct. 10; Sept. 6; Household Number, Oct. 10; Sept. 6; Cristmas Number Bergers and Christmas Number Bergers and Christmas Number Bergers and Sept. 10; S tishing this series of special num issing this series of special numbers. We assure you they will be better than ever. We will continue to publish, also, our illustrated supplements, as usual. These will all go to our people at no extra cost to them.

We would draw the attention of our people especially to the advertise-ment on page 11 this week telling of the veterinary, horse doctor and horse the veterinary, horse doctor and norse training book we are now offering. We anticipate a big demand for this book and would advise you to speak quick if you want one.

A great number of our people during the past year showed Farm and Dairy to their friends and neighbors, who gladly subscribed. Thanks to our people, we have to-day three thouof a circulation above what we a year ago. We solicit your sand of a circulation house that a year ago. We solicit your kindly assistance for this year and will pay you handsomely in cash or premiums for new subscribers you will get for us.

The following letter just received from Mr. T. R. James, Middlesex Co., ont., brings out two or three points as to why you will find Farm and Dairy of special value to you: "After reading Farm and Dairy this week I sit down to write you this letter of appreciation of what you are doing for us farmers. Your paper seems to become more necessary to me each week, and I like it better all the time. ceek, and I like it better all the time.

cour articles about the Prize Farms
find to be very helpful and interfind to be very helpful and why esting. Your articles about 'Why the Boys Leave the Farm' are great the Boys Leave the Farm' are great; I wish every farmer in this country could read them. I must say, also that I like your paper the more because you do not print any fake advertisements or advertise patent medicines that guarantee to cure all our illa."

Don't Know Too Much,-There ben't know Too Much.—There is no danger of patrons learning too much. Many of the creamerymen's troubles come from the fact that their troubles come from the fact that their patrons know too little. One of my parons, for instance, did not know, and the fact that unmerciful rate. For my part, I would welcome the day when farmers would be fully informed on creamers matters.—M. J. Lewis, Victoria Co.

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

# FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER WANTED-Young man to learn Butter and Ice Cream Business; also two men to travel. Must. Googneisenced in creamery Business. Goodneisery and commission for the right men and Address Ideal Oreamery Co., Portage in Pratter FOR SALE—Iron pipe. Pulleys, Beiting Bails, Chain Wire Fencing, Iron Posts etc., all sizes, very cheap. Send for list stating what you want. The imperial Waste and Metal Co., Dept. F.D., Queen street, Montreal.

FOR SALE

CYLINDRICAL 380-GALLON CREAM LER. We are using Mechanical Re-COOLER. We are using a for same.

Irigeration and have no use for same.

Point Abino Creamery, Ridgeway, Ont.

Sold Over 850,000 Acres in Five Years

# WESTERN LAND FOR SALE

In areas to suit purchasers from 160 acres upwards, situated on or near railways in the

Best Wheat, Oat and Stock - Growing Districts of

## SASKATCHEWAN AND ALBERTA

450,000 acres to choose from PRICES LOW Terms most generous and helpful

Special Inducements Given Actual Settlers

Our crop payment plan requires no payment on land bought un-til the purchaser sells his first crop. He can use all his capital for cultivation and improvements.

Write for particulars.

RELIABLE AGENTS WANTED IN EVERY COUNTY

# F. W. HODSON & CO.

Room 102, Temple Building TORONTO, ONTARIO, CANADA Branch Office: North Battleford, Sask. Also Agents Canadian Pacific Lands

\*\*\*\* Chee Makers a to this de matters r suggest si letters to \*\*\*\*\* Dairy P (Can)

Ianua

address wil Prof W

ware of Ont ill increas Vacre \$23 oc Le borrowed such terms in acre for principal a raining an ture of \$1.8 good invest orn slides t interest with the b methods of regulations money. Th given in a l

first evening low spoke or Bull by t the great pr dairy indus ms are the usiness stan been running this surpounty. By the was able neighborin ize run in f TO REDUC The inspe

ear, and 80 re caused b ffects of feet The pasteu ther problem In closing, Di ore attentio he needs of c aen would r upplying che zes and of Canadian tra ast season.

the infants t

n in full. HOW TO The chief f afternoon sess "Cheese and Prof. H. H. I ultural Colle ublished in A. Zufelt, Kingston Dai

have given a Making," was daking, was it was expect if the Montre Produce Mo ould be in a the dairy situ point. Only owing his rem took place over est method o umber of number of da ory, weighed or door. This followed in the It was stated faction

\$3 a Da

oh Thou \*\*\*\*\*\*\*\*\* arning to amerymen's that their One of my not know was such a Cheese Department Makers are invited tosend contributions to this department, to ask questions on matters relating to cheese making and to suggest subjects for discussion. Address letters to The Cheese Maker's Department. was such a aking but him what noe jumped as stealing

tt tota

at a most y part, I en farmers creamery

enew you

VERTISING ITH ORDER

arn Butter o two men rienced in alary and b. Address la Prairie.

s. Belting. Iron Posts, ad for list. e Imperial .D., Queen

CREAM anical Re-r same. way, Ont.

Acres

N

E

asers

and

AN

rom

lpful

ires ital

ED 0.

\*\*\*\*\*\*\* Dairy Production Increasing

(Continued from page 9) address will be given in full in a later issue of Farm and Dairy.

THE REST INVESTMENT
Prof. W. H. Day's argument for tile drains is unanswerable. A cantile drains is unanswerable. A can-rass of Ontario shows that the drains will increase the value of crops on an There \$23 on the average. Money can be borrowed from the government on

Still increase the value of crops on an Decre \$30 or the average. Money can be borrowed from the government on such terms that a payment of \$1.84 an acre for 20 years will pay back principal and interest on the cost of draining an acre of land; an expenditure of the cost of the land; an expenditure of the cost of the cost of the land; and the cost of t

The pasteurization of whey is another problem deserving of attention. In closing, Dr. Publow advocated that more attention be given to studying the needs of our home markets. Dairythe needs of our home markets. Dairy-men would realize greater profits by supplying cheese of better shapes and sizes and of softer texture to the Canadian trade. Mr. J. A. Ruddick reviewed the dairy business of the past season. His address will be giv-in in III. n in full.

in in full.

How to pay you cheese
The chief feature of the Thursday atternoon session was an address on "Cheese and Butter Comes," Lype of the pay of the

Kingston Dairy School, who was to have given an address on "Butter Making." was unable to be present: It was expected that representatives of the Montreal Board of Trade and Produce Merchants' Association sould be in attendance, and speak on the dairy situation from their standpoint. Only one was present. Following his remarks a lively discussion took place over the old problem of the best method of paying for choses. A number of dairymen contended that sheese should be inspected in the factory, weighed and paid for at the redoor. This system is being largely followed in the Campbellford district. It was stated that it is giving satisfaction.

Against this system it was pointed out that the Montreal Produce Merchants had had trouble for years through being docked for shrinkage in weight by the British buyers. This British of a conference at which the British of a conference at which the British of the Montreal This weight of had agreed to accept the weights of had a weight of his weight. As confered that the farmers also should be willing to accept this official's weight. A color that of leading dairymen stated that the farmers also should be willing to accept this official's weight. A color that of leading dairymen stated that the farmers also should be willing to accept this official's weight. A color that of leading the weights of t the best of satisfaction from the Mon-treal buyers. Others said that they had not had that experience and that the official weigher at Montreal should be appointed by the Government and not by the Montreal Board of Trade. Nothing definite resulted from the discussion WHERE LOSS OCCURS

his trip to England ne had concluded that we are now making the best pos-sible style of cheese under our condi-tions and that what we require to do is to improve the average quality of

is to improve the average quality of our make.

The next great improvement that needs to be effected is to improve the quality of the milk delivered at our factories. The instructors' reports showed that in those sections where the milk is delivered to the factories in the best condition there is a saving of amend and the milk of the section of the

great saving may be made

REWING SESSION

At the Thursday evening session addresses were given by A. D. Mchatesh of Sterling, by Dr. G. C. Creelman of the Guelph Agricultural College, who told of the work the college is doing, and by Hon. Martin Dominion Minister of Agriculture Dominion Minister of Agriculture of the College of the Co department.

ance for agriculture or the part of his department. The convention came to a close Friday noon after an address by Mr. O. P. Whitley, on the "Present Value of Present Value of Val

out dust and dirt."
Someone in the audience asked what was the cause of "yeasty" flavor. Mr. Barr replied. "Dirt. Wherever you have yeasty flavor there are dirty people around somewhere."
Mr. Barr stated that when the source Barr stated that when the source of contamination could not otherwise be discovered it would help to solve the trouble were the whey pasteur-ized. The cost of pasteurizing amounted to 60c to \$1 a ton of cheese.

#### What Are Best Curing Conditions

I. A. Reddick. Dairy Commissioner
It has often been said that cheese
are only half made when they are
placed in the curing room. At any
rate the best of cheese are seriously
injured in quality if exposed to a
temperature of over 60 degrees, and temperature of over 60 degrees, and there is from one to two per cent of unnecessary shrinkage. The texture becomes more or less "mealy" and ob-

there is from one to two per cent. of unnecessary shrinkage. The texture becomes more or less "mealy" and objectionable, and bad flavors are apt to be developed.

It has been demonstrated that curing, or ripening, will proceed at very low temperatures, even below 32 denoted by the superature, and the superature is more slowly as the temperature are indicated by the superature are indicated by the superature is more slowly as the temperature are indicated by the superature of the characteristic cheesy flavor which is an essential quality in first-class typical Cheddra. The ideal cheese has a positive as well as a negative quality of flavor. On the whole, a temperature of 00 degrees seems to be best suited to produce this desired effect.

to produce this desired effect.

IGE FOR WAIM WASTIES

A curing room with walls slightly
insulated, with tight fitting doors and
windows, and with a cement floor to
utilize the cooling power of the earth,
will ensure the proper temperature
except in very hot weather. To remove the moisture which exudes from
the cheese, and that which results
from the reduction of air temperature, and also tensure a proper tem. from the reduction of all tempera-ture, and also to ensure a proper tem-perature, it is advisable to provide a well insulated ice chamber adjoining the curing room, with a provision for the circulation of air, under control,

the circulation of air, under control, between the curing room and the ice chamber. The air is thus cooled in hot weather and the moisture which it collects is deposited on the uncovered surface of the ice.

If properly constructed, the ice chamber need be only about one-third the size of the curing room in cubic capacity, assuming, of course, that the curing room is no larger than it need be... "The Dairy Industry in Canada."

sook place over the old problem of the bast method of paying for choses. An number of dairymen contended that cheese should be inspected in the factory, weighed and paid for at the tory, and the tory, and the tory of the tory, and the tory,

# Mechanically Superior The SHARPLES **Tubular Cream Separators**

The world's greatest mechanical men use Tubulars, thus endorsing and guaranteeing their



THE SHARPLES SEPARATOR CO.
Toronto, Ont. Winnipeg, Man.

FOR SALE Up-to-date, chrese fastery and vell. One aere land; received \$1.5 per 100 lbs. chress for manufacturing. Yamle to school, the second of the second

# Anything to Sell

We want to hear from every reader of FARM AND DAIRY who has anything to bring the control of the

equal to yours? The small trader can connect with pos-sible oustomers by placing a small ad-writisement in FARM AND DAIRY. Our AND DAIRY. Our counter space in a part of the pro-counter space in our property of the pro-tory of the pro-vertisement and send it to-day to Farm and Dairy. Peterboro, Our



The Lightning Evaporator is not only the fastest one made in the world, but it holds more prizes, medals and diplomas for quality of syrup it makes than all the other makes put together. Write for catalogue, it is free and gives lots of

SMALL BROS. - Dunham, Que

# The Essential Information regarding THE DAIRY COW Is placed in a compact and usable form in a new book.

Dairy Cattle and Milk Production By Prof. C. H. Eckles

By Prof. C. H. Eckies

Over 190 pages presenting material in
south a way that it will assist the pracsouth a way that it will assist the pracsouth a way that it will assist the pracdairy cows and to promise mile conominally ever in literal assistance of a promise and animals, apparatuse for treating mile for Bloat.

A Prof. Eckiles. Treat was the production of the book.

Prof. Eckiles. the author of this book.

Prof. Eckiles. the author of this book.

Prof. Eckiles. The author of the book.

Prof. Eckiles. The prof. The second of the control of the book.

Prof. Southern of the book.

The control of the book.

Prof. Eckiles. The prof. The book.

Prof. Southern of the book.

Book FARM AND DAIRY Peterboro





TITE should treat our minds as innocent children. whose guardian we are - be careful what objects and what subjects we thrust on their attention.

# The Second Chance (Copyrighted)

NELLIE L. McCLUNG

Author of "Sowing Seeds in Danny" (Continued from last week)

(Continued from last ucess)

Paarl, the oldest daughter of John Wassen. a O. P. R. section man tiving in Millrord, Man, receives a large sum of money from the relatives of a young Englishman she had nursed when till. She decides to edinate, the family. The Waterns are joined by their Aunt Kate, who proves not distinct the family. The Waterns are joined by their Aunt Kate, who proves not an of being a school teacher, of the proves an efficient and clever scholar and had dreams of being a school teacher. She sees that her small brothers are learning bad maltis in the torn and gives up her ambilist to be a school teacher and suggeste maltis in the torn and gives up her ambilist to be a chool teacher and suggested due to the children at a country school. Ton Bisadman, Wa are introduced to the children at a country school. Ton Bisadman, Wa are introduced to the children at a country school. Ton Bisadman, we want to deal the children at a country school. Ton Bisadman, we want to the children at a country school. Ton Bisadman, we want to the children at a country school with the late of the children at a country school. Ton Bisadman, we want to the children at a country school with the country school and the children at a country school. Ton Bisadman, we want to the children at a country school with the country school with the children at a country school. The children at a country school with the circumstances. In the maantine the stream of the children at a country school with the circumstances. In the maantine the stream of the children at a country school with the circumstances. In the maantine the circumstances in the maantine the circumstances. In the maantine the circumstances.

66 To like fine to see that faded raincoat of hers; she said to herself, "and Lib's little muslin hat"; but every raincoat that "is her was and fresh, and said. "She has been up here with said. "She has been up here with said." lin hat"; but every raincoat that Pearl saw was new and fresh, and every muslin hat had a bright and happy little face under it, instead of Libby Anne's pale checks and sad, big

Dr. Clay came over with a bag of popcorn for them, and Pearl told him

popcorn for them, and Pearl told him the cause of her worry.

"They had their dinner all right," she said in a low voice to the doc-tor, as he leaned over the wheel. "Bill was fine, and do you know, h-is real nice when he's sober I wait-ed on him, and Mrs. Cavers seemed so happy: it pretty near made my heart stop beatin' every time and thought of it, and how nice it would be if he'd keep straight. Libby he if he'd keep straight. Liboy
Anne had two licorice kittens and a
package of gum saved up in a bag,
she said she wouldn't eat them today, for she was havin' a good
enough time when she could see her mother enjoyin' herself so well. Lib is only ten years old, but she knows as much as some grown-up people.
The last I saw of them they were going up to Mrs. Burrell's to fix up before they had the photo I think I'll go and see about taken

taken. I think I'll go and see arous them, Doctor; I can't enjoy myself for wonderin' if they're all right."
"I'll go with you," the doctor said, calling Jimmy Watson to come and hold the horse and look after the

Down the almost deserted street the doctor and Pearl went, looking for any member of the Cavers tamily. Flags hung motionless in the bright sunshine. The trees that formed the arch over the road were beginning to droop in the heat of the afternoon.

The photographer's tent was the first place they went to. lady and gentleman were posing for a photo, the young lady all gone to blushes and the young man very goreous in tan boots and a red tie

"Did you take a photo of Mr. and rs. Cavers and Libby Anne?"
"What are they like?" the photo-

grapher asked.

H R Thorse

A Farmer's Success is Reflected in the Attractiveness of his Home

Mr. S. A. Freeman, of Oxford Co., Ont., has made a splendid success of his farming. Success in farming, however, should merely be a means to an end—to make the home comfortable and attractive. Mr. Freeman has been successful in this, too, as the above illustration of his cosy farm home proves.

but I do not know where she went "but I'm prepared to do it." from here

Pearl's heart sank. "He's broke his she said angrily when they n the street. "He promised were on the street. "He promised me he would not give Bill any liquor until he got his picture taken any-way." Pearl's eyes were throwing

rings of fire. "Who promised?" the doctor asked.

"Sandy Braden. I told him "Sandy Braden. I told him all about the photos when we went there this morning with the onions and other stuff, and he seemed real nice about it; but it doesn't look as if he meant it."

"I don't know. Pearl. Sandy Bra-den is not a bad fellow. He wouldn't den is not a bad reliow. He wouldn't go back on his word. I'm sure of that. You go up to Mrs. Burrell's and I'll go down to the hotel and see if they know anything about Bill." The barroom was full. Even the lacrosse game was not a strong

enough attraction to draw away al! the crowd; the products of Walker and Seagram still held their own. Bob Steele, the bartender, was telling about Bill Cavers going to have

the about taken.
"They got around Sandy easy," he was saying; "but that's one thing I won't let anyone interfere with. Ar long as I've been selling liquor I've never refused to sell to any man. I refuse no one. Every man has a per-fect right to whatever he wants to eat or drink—I claim that for my self, and I hold that no one has a right to interfere with another man's

The crowd in the bar-room gave maudlin approval.

maudin approval.

"And so you just bet Bill Cavers got all he wanted. He came in here soon after dinner, and the first man that asked him to drink got turned down Think of Bill Cavers refusin' good liquor! But when he heard it good liquor! But when he heard it bubblin' in the glass his knee just wobbled—that's the beauty of sellin' our goods, it advertises itself, and works nights and Sundays. I says: works nights and Sundays. I says: 'What'll you have, Bill?' and he said: -Bill's an honest fellow—he said: 'I've no money, Bob.' But I says: money, Bob.' But I so nakes no difference, good here—you've als That makes paid—and so name yer drink, Bill, and I poured out a glass of Three Swallows; and you bet, by the time Bll was ready to quit he would sure look well in a picture. I was takin a risk of losin' money too. Bill's money, too. Bill's nest enough, but chance that there'll be judgment against his stuff this fall. But I've against his stuff this fail. But I've always said that a man has a right to all the liquor he wants, and I'm prepared to stand by it even if I drop money on it. It may be foolish looking around for applause, but audience were not in the mental condition to discuss fine ethical points-

Dr. Clay, standing on the outer edge of the crowd, heard all this. He made his way to the bar. "Where is Bill Cavers, now?" he asked.

The gleam in the doctor's eyes should have warned the bar-tender to

be discreet in his answers. "Well, I can't just say," he answered with

mock politeness, resenting the tone

mock politeness, restion. "He didn't of the doctor's question. "He didn't leave word with me, but I guess he's

getting his photo taken."
"Did you set him drunk and then

turn him out in this blazing sun?" the doctor asked, in a voice so tense with anger that the audience, befud-

dled as they were, drew closer to see what it was all about,

what it was all about.
"We never keep people longer than
is necessary," the bar-tender said,
with an evil smile, "and besides,
Bill was due at the photographer's,"
Before the doctor knew what he

landed a smashing blow on the bar tender's smirking face, a blow that sent him crashing into the bottle behind him. He recovered in an in caught the flash of a knife in hi-With a swift blow the doctor knock ed the knife from his hand, and grasping him by the coat collar, he dragged him to the back door, and then, raising him on the toe of his boot, landed him in the middle of the mud-puddle that had been left by the

himself up when Sandy Braden drove up to the stable door with his pacer up to the stable door with his pacer.

Meanwhile Pearl had continued the
search for Mrs. Cavers and Libby
Anne. She was on her way to Mrs. Anne. She was on her way to Mrs. Burrell's when she caught sight of something like a parasol down in the trees where the horses were tied She ran down to the picnic ground hastily, and there, in a grassy hollow, shaded by a big elm, she found the objects of her search

le objects of her search.

Bill Cavers, with purple face and ide open mouth, lay breathing eavily.

Libby Anne was fanning heavily. 

she said. "He's been here in the no sun I don't know how long. I never saw him breathing so queer before." "I'll get the doctor," said Pearl. She ran back up the road and found

She ran back up the road and round the doctor talking to Sandy Braden at the stable behind the hotel. "Come on, Doctor!" Pearl cried breathlessly. "I found them. You come too"—to Mr. Braden—"it will

at the stable behind the hotel.

"Come on, Doctor!" Pearl criedbreathlessly. "I found them. You
come too"—to Mr. Braden—"ii will
take you both to carry him."
Sandy Braden hesitated, but therwas something in Pearl's compellineven that made him follow her.
something in Pearl's compellineven that made him follow her.
something in Pearl's compellineven that made him follow her.
something in Pearl's compellineven that made him follow her
to caves had and was still
bathing his face. The doctor hastily
loosened the drunken man's clothing
and listened to the beating of his
heart. Its irregular pounding was
unmistakable, it was making its last
great fight.

unmistaking, it was great fight.

Dr. Clay took out his hypodermic syringe and made an injection in syringe and made an injection in the syringe and made and injection in the syringer an syringe and made an injection if Bill's arm. Bill stirred uneasily. "don't—want—it—Bob," he said thickly. "I promised—the—missus She's—with me—to-day."

Sandy Braden endeavoured to quiet

Sandy Braden endeavoured by Mrs. Cavers's fears, "It's the heat, Mrs. Cavers," he said, "but it'll soon wear off—he'll be all right soon, won't he, Doc?" all right soon, won't he, Doc?" The doctor made doctor made no reply, but again to the sick man's

heart. It was failing.

Mrs. Cavers, looking up, read the

Mrs. Cavers, looking up, read of doctor's face.

She fell on the ground beside her husband, calling him every tender name as she rained kisses on his livid cheeks, uttering queer little cries like a wounded animal, but begging him always to live for her sake, and cry-ing out bitterly that she could not

give him up. Sandy Braden, who had often seen men paralyzed with liquor, gently tried to take her away, assuring he again that he would be all right soo She noticed then for the first time who it was who had come with the doctor, and shaking off his hand, she sprang up and faced him, with blaring eyes that scorched into his very

(To be continued)

Emery powder and oil made into a paste is an excellent mixture to clean steel. Rub on well and polish, after which rub with an oiled rag and then Before the doctor knew what he was doing his right arm flew out and D.E.S.

morning's rain.

The bar-tender was just gathering

Well! But ly. The can Thite was around t we were, wh to do for us.
it out he the
whole lot for in building u der safe and and the Brit ever believed cidentally cu ket in the w from the que What I wanted while this g the meeting i white vest andience wer clothes which ing that day,

tanuary

-OUR

\*\*\*\*\*\* Another

hes, and uttiro. might have and they lost because of th because of the Clothes do they go a lon man think of they have a actions and actions and arem rather a ing from a hof us are non e ourselves farmer that they we ed man were backwar shaking hands been dressed to to do, they co equal footing, home feeling to a body of me sense to put l not attend we as, I can to his wife th Oh, j addressing a "Another Hire

ing so much

Somethi New that th there is a termany to close and confine th e house, and ses of cold a stion that the onsible for th The lack of more often an is suppos The first

a requisite of her g does it ta five persons ers and win entist tells u on one cubic wn from th blood. HOW C

Yet in many ation whatevening a wind manifest at tch a proceed at to bed in a gathering den drove

his pacer. nd Libby
y to Mrs.
sight of

were tied c grounds rassy hol-she found

breathing s fanning and Mrs. hing his bby Anne

er. Her

I never

d Pearl.

y Braden

earl cried m. You —"it will

but there ompelling her.

was still or hastily clothing

g of his

g its last

ppodermic ection in easily. "I he said missus.

d to quiet

vers," he he'll be

eply, but k man's

read the

eside her y tender i his livid

cries like and cry-

ften secr ten seen t, gently aring hea ght soot first time with the hand, she with blaz-

de into a

ish, after and then cloth o clean

sy slo pillow

blow that in an in quick eye ar at him tor knock and, and collar, he door, and toe of his ddle of the left by the

Rnocking again! Well! Well! Well! But here it goes nevertheless. I attended a political meeting recently. The candidate whom the farmers around here elected to do them out of the United States market, that is the successful Conservative candidate, was around to tell us what fine fellows, we were, what a lot we had done for phin, and also what a for he was going pin, and also what a for he was going to assist in building up a united country, render after an around the British flag (which nobody ever believed were in danger) and incidentally cut us out of the best market of the world for the produce we have to sell. But all this is aside from the question.

What I was going to say is that shire this gentleman showed up at the meeting in a fine long tailed coat, a white vess, else, etc., most of his

a white vest, etc., etc., most of his

were backward about going up and shaking hands with him. Had they been dressed as they could well afford to do, they could have met him on an squal footing, and he would have gone home feeling that he was representing a body of men who would have the sense to put him out of office did he not attend well to their interests. As not attend well to their interests. As it was, I can almost hear him saying to his wife that night, "Where was I dear? Oh, just out in the country addressing a bunch of hayseeds."—
"Another Hired Man."

Something About Colds

Now that the chilly days have come here is a tendency on the part of any to close the doors and windows ad confine themselves more closely in ad confine themselves more closely in the house, and in consequence many ses of cold are contracted and the stion that the colder weather is re-onsible for this is entertained. The lack of pure air in the dwelling more often responsible for colds an is supposed by the mass of peo-

The first and most indispensable requisite of health or even existence is a constant supply of fresh air. How fing does it take for a family of four or five persons to consume all the oxyhve persons to consume all the oxy-m in a common sized room, if the lors and windows are closed? The ientist tells us that at every inspira-on one cubic inch of oxygen is with-lawn from the air and absorbed by e blood.

HOW COLDS "HAPPEN NOW COLDS "MAPPEN"
Yet in many homes there is no venllation whatever and if you suggest
pening a window or door much alarm
manifest at the great danger of
ich a proceeding. The children are
sat to bed in a room with the windows
and doors closed and made as nearly

OUR HOME CLUB a dir-tight as possible, often with the underwear on that was worn during the day, with a night dress of outing the day, with a night dress of outing and then an abundance of heavy covers. The result is they soon become too warm, they will be the soon become too warm, they will be the soon become too warm.

timit they soon become too warm, toos about, throw off the covers and take cold.

The air in such a room has an offensive odour to one coming into it from the fresh air, and is filled with carbonic acid gas wholly unfit to breathe, as it is exhausted material which the tissues have rejected. Permanent of the control of vest more dollars in needed fuel than to pay it out for doctor bills.

... War

From hill to hill he harried me; He stalked me day and night; He neither knew nor hated me; Nor his nor mine the fight.

He killed the man who stood by me, For such they made his law; Then foot by foot I fought to him, Who neither knew nor saw

I trained my rifle on his heart; He leapt up in the air, The screaming ball tore through his breast, And lay embedded there

Lay hot embedded there, and yet Hissed home o'er hill and sea Straight to the aching heart of one Who'd wronged not mine nor me! —Arthur Stringer.

... Where Milk is Sold in Chunks

Where Milk is Sold in Calumber Editor, Farm and Dairy.—In the recent but days I was thinking of some colder experiences of some years ago when I went homesteading in the early days of Manitoba development. I was caused to look backward by

some conter expenses the series of the carly days of Manitoba development. It was a series of the carly days of Manitoba development of the carly days of Manitoba development. It was a series of the carly days of the carly frozen, and for convenience it is allowed to freeze about a stick, which serves as handle to carry it by. The milkman leaves one chunk or two-thunks, as the case may be, at the work of the carly days of the carly days of the carly days in factorial for a drink of milk, cry for a bite of milk. "The children in Ir kutak, instead of crying for a drink of milk, cry for a bite of milk." The children in Ir kutak, instead of crying for a drink of milk, cry for a bite of milk. "The people in winter do not say, 'Be careful not to apill the milk,' but 'Be careful not to breat the milk. Broken milk is better than spilled milk, though, because there is an opportunity to save the pieces." In tasse early days in Manitoba lase farmers driving into Winnipeg with a load of wood and on top therefor a chunk or chunks of milk, as it had been frozen in a pan, this frozen milk being taken into the city to market.—R. T., Durham Oo, Ont.

Farm and Dairy Patterns give sat-

Soup Bone Possibilities

In these times, when we hear so much about the high cost of living, and especially mest, I thought Farm and Dairy readers might like to hear what you can do with the cheapest cut you can buy in the meat line—cut you can buy in the meat line—

what you can do with the encapease cut you can buy in the meat line—a soup bone.

I always ask my butcher for a soup bone with lots of meat on it, or you might sak for the shank. I cover the meat with cold water and boil for about half an hour, and then put for about half an hour, and then put way we learned an boil to make it from Farn and Dairy).

When I build the fire in the evening I take the soup pot from the cooker and place it on the back of the stove, where it will simmer during the evening, and while I am getting breakfast. By this time the meat is usually in shreds. "emcre it from the stove, run it through the food chopper, or mines it, add a little of the liquor, salt well, add pepper, press into a deep dish and set ways to cool.

press into a deep dish and set away to cool.

When wanted slice, and behold, you have the lest pressed beef you ever tasted! For 20 cents I get three pounds of pressed meat. I grind gristle and fat, as we like it, and it is very nutritious.

Sometimes, before the meat is thoroughly tender, I put it into ancther kettle with a little of the stock, boil it down brown, add potatoes, and have a nice pot roast with brown grayy. When I want mince pies I take what meat I need from the nicest parts. For croquetts take the pressed meat, add potatoes, form into ualls and Iry. For hash take cold potatoes, onion and pressed meat. I form mine into balls and brown them. ometimes, before the meat is thor-

They make a pretty dish, garmshed with parsley.

For rice balls boil rice until tender, or use cold rice. Take square pieces of cheesecloth, place on each one pieces of cheesecloth, place on each one tablespoon rice and one-half tablespoon meat, then another spoon of rice, tie up the cloth, place in boiling water and boil 10 minutes, then take out and remove the pieces of cloth. Place the balls on a platter and pour a tomato sauce ever all. This is a very appetizing dish and one would never guess it was made from soup meat. The proper of the place of the place

oes. Cook until thick as cream. Add salt and pepper to taste. Sometimes I make a meat pie. Mince meat and potatees fine, add onion and water, make a nice top

onion and water, make a nice top crust and bake.

I have not mentioned the nice stock. I have usually enough for soup for twe days. The first day I have it clear, the next day add a little onion, celery tops and rice. I cook the celery stocks (the outside ones) with the meat, for one can't cook celery too long.

celery too long. When I remove the meat from the liquor, to press, I skim the fat from the top and use it for shortening or for frying. After skimming the liquor add one onion, one outside cabage leaf, one carret, (the celery was cooked with the meat), and half cup rice (I sometimes add oatmeal for a change)

change).

I hope some readers will try these economical dishes and report how they like them. One can live well on these cheaper dishes and surely be happier than to run in debt for more expensive ones.—Mrs. W. S. Morton, Halten Co., Ont. ...

Enclosed find \$1.00 for my renewal subscription to Farm and Dairy. I consider it a good investment for any farmer and would like to see Farm and Dairy in many more homes in Nova Scotia.—Robt. F. Newcombe Kings Co., N.S.

# GRAND TRUNK RAILWAY

THROUGH TRAIN SERVICE AND PULLMAN SLEEDEDS

Between TORONTO and PORCUPINE

NORTHBOUND-First train leaves Toron-to 8.30 p.m. Dec. 2nd, arriving South Porcupine 4.20 p.m. following afternoon.

Foreupine 12.30 p.m., Dec. 3rd, arriving Toronto 7.30 a.m. following morning.

The Attractive Pouts to

# WINNIPEG AND WESTERN CANADA

IS VIA GRAND TRUNK AND CHICAGO

Steamship tickets on sale via all lines.

Make your reservations early. Full particulars from Grand Trunk Agenta

AGENTS We will pay you well to hustle in your district for new sub-FARM AND DAIRY, Peterboro, Ont.

# All Four

The Best Canadian Magazines

Regular Price \$3.10



What you are and the success you make depend much upon what you read. This read the force in the case of your children. For your boys, for your prins for your children. For you boys, for your prins for your child what and wife, this combination is what and hope to your principle. Also the best of the your principle with the boom and an about have it in his boom and the printing that the printing was the printing property. Monthly) brinnful of information from the printing your or gardens who exhaus the printing property was a property of the printing printing property of the printing printing printing printing printing printing printing successful make poultry raising successful printing successful part of the printing printi

pects to make poultry raising sup-FARM AND DAIRY 15.00
Subscribe through Farm and Dairy and secure the four for one year of Farm and Dairy and The Cana-dian Home Journal for 51.33.
The four farm of the Cana-dian Home House for Side of Farm and Dairy and The Cana-dian Fourty Review for Side of Farm and Dairy and The Cana-dian Home Journal and The Cana-

Address all orders to Circulation Manager FARM AND DAIRY PETERBOPO ONTARIO

#### Household Suggestions

Grease spots on a wall may be removed by putting blotting paper on the spot and holding a hot iron

Grease spots on a wall may be removed by putting blotting paper on the spot and holding a hot iron against it.

In sitiching a hem in a sheet or towel it is much better to turn and stitch back an inch than to tie the threads to fasten it.

Don't throw away your old kid gloves. Cut the fingers off and give to children to slip over the ends of colored crayons which they use at school.

tucks and rows of round eyelets or embroidered dots.

Aprons that are worn thin in front may be made quite good again, with the rolling pin. They are then Rip off the belt, bit or yoke, cut the ready for use.

ready for use.

Boil a cupful of rice in two quarts of water for 30 minutes. Let it stand over night and strain through cheese cloth. Soak the from rust spots in the rice water for four or five hours and rinse in clear water. This will remove iron rust of long standing.

86-VJ33

a day and then repeat the washing Finlly rut dry with a woollen cloth then polish.

then points.

When the white and not the yolk of an egg is required for use, make a small hole in the shell and let the white run out, and stand the egg in an egg-cup, which should be set in a cool place. The yolk will keep its color and freshness for some days.

# THIS FASCINATING DRESS \$6.49

Just one of many wonderful values that the Robert Simpson Co. is now offering in their new

# MIDWINTER SALE CATALOGUE

that is just off the press. If you haven't received your copy, your name on a post card will bring it. But just as a foretaste, order this dress to-day---You'll be delighted with it.

# We Pay All The Delivery Charges

Whether you order fifty cents' or fifty dollars' worth of merchandise from us, we pay all delivery charges on everything in this catalogue. And if you're not satisfied with what you receive, send it back in good order within seven days, and we will pay all express charges both ways. This is the Simpson sim plified system of shopping by mail.

This dress is SIMPSON MADE, which means that experts designed it, experts made it in the Simpson work rooms, and more important still it was inspected the Simpson way, not one little defect was passed. We bought too many yards of the cloth and want to clear it out quickly, hence the great saving in price to you.

# Misses' Sizes

Years .		*						14	16	18
Length	,		,			,	٠	33	35	37
Bust	,				,			32	34	36

# Women's Sizes

Waist	23	24	25	26	28	29
Bust	32	34	36	38	40	40
Length	38	39	40	41	42	42

# Order Number G90581

This attractive dress for women or mis is splendidly made from richly finisted lustre. The shoulders are made so as to give a dainty kimona effect. The prett yoke of fine net lace is outlined with a new rolling rever and a square-designed black satin collar comes over the shoulders from the back and continues to the waist-line at front; the lower part of sleeves trimmed to match. Skirt made with correct and graceful lines, fastens at left side of front panel, which is finished with small black satin buttons. Colors, black, navy or green. Sale

glores. Cut the fingers off and great properties of the fingers of and give to children to slip over the ends to rapidly measure skirt lengths and of colored crayons which they use at Should a poultice at any time be A dainty and inexpensive trimred where no linseed meal is woollen cloth we with kerosene. Wash well with a washing up, always soap the dish cloth with the required where no linseed meal is woollen cloth we with kerosene. Wash well with a washing up, always soap the dish cloth with kerosene. Use well and then rinse in lear a water. This will result or any time in clear water. This will r

The cos kitchens l one, equi an ample afferding water, and not be gingle la single la the farme which he another y vears pass his wife's over his o veniences meat chor tent egg "wash rag of ename dozens of them may or even a an cutlay. husband w

Ianua

Mrs. C. I A little will often

will ofter labors in not only her, but family f ness. The of all, it

arrange when the keeper m

altoration apply to

pantry as of heating

w

What w eagerly cr able incon ever-recurrently and be satisfie What won ever plans often victi may be so logically of that here

OL

11, 1912

o washing

ollen clot

ot the vol

ise, make a

the egg in be set in me dave n attention

water mith

1190 After Women in Farm Life

Women in Farm Life
Mrs. C. R. Barns, Yarmouth Co., N.S.
A little planning, a little oullav,
will oftentimes so lessen a woman's
labors in housekeeping as to amount,
not only to a great deliverance for
her, but to a decided gain to her
family from her superior selectiveand to be a superior selective
of all, be directed to making the
strangement of the house more conremient. Of course this is best done
when the house is built; but if by a
partial reconstruction the house
keeper may be saved many steps and
much labor, each dax, then only sheer keeper may be saved many steps and much labor, each day, then only sheer poverty, such as no owner of a good farm should be willing te confess, should prevent the making of needed alterations. Especially does this apply to the piping of water into the farm apply to the piping of water into the house, the convenient location of pantry and milk room in relation to the kitchen, the provision of drain-age for slops, and the proper placing of heating apparatus

CONSERVE LABOR INSIDE

The cost of replacing some wretch kitchens by a decent and comfortable one, equipped with running water an ample range with a large tank an ample range with a large tall afferding a constant supply of hot water, and a convenient pantry, need be greater than the cost of a single laboresaving muchine which the farmer is preparing to buy, but which he can get along without for another year, as he has done for vears past. Why not for once give his wife's convenience the preference over his own? And as for such con-veniences as a clothes wringer, a meat chopper, a bread mixer, a pa-tent egg beater, a pacher, a steel "wash rag," for cleaning pots, a set of enamelied sunce pans, and the of enamelied sunce pans, and the lessening labor in the kitchen—why! it is marvellous what a collection of it is marvellous what a collection of them may be Lought for a ten-dollar or even a five-dollar bill. When so them may be tought for a ten-dollar or even a five-dollar bill. When so much relief can be brought to the over-worked housekeeper by so small an cutlay, he must be a short-sighted husband who will refuse it.

What wonder that the thing for which the average farm woman most eagerly craves is "a certain dependable income, however small, for the ever-recurring needs of herself, her family and the household, which can be astisfed only by a cash outlay," What wonder that she ponders often money at home," and the may 'earn money at home," adulative advertises attentioned by adulative adver-What wonder that the thing for ever plans by which money at home," or that she is so often victimized by seductive advertisements of methods by which money tisements of methods by which money arranges? "Might it not may be so earned? "Might it not logically occur to the most careless that here is a case, not for the earn-

# **OLD COUNTRY** DOMESTICS

Capable Scotch, English and Irish maids; also Danish girls. Parties arriving twice a month

Apply now. The Guild. 71 Drum-mond Street, Montreal. 47 Pembroke St., Toronto, or 227 Bank St., Ottawa

WIPE YOUR FEET Grab's Foot Scraper

Onward Mfg. Co., Berlin, Ont.

ing of more money, but for the receiving of NEED LESS SACRIFICE

"One of the strengest instincts in the heart of every woman is that of self-sacrifice. Wherefore, while she the heart of construges instincts in the heart of construction and is that of safe-sacrifics. Why coman is that of safe-sacrifics. Why coman is that of is still a bride, the gladly dealer is saft a sewing machine, that her hus-band may purchase the mower of which he is in such need; she boils her clothes in the dish-pan and wrings them by hand, that the price of a boiler and wringer may go to the purchase of tools for her husband's aboy; also wears out her very soul scrubing unpainted woodwork, under the impression that it is her first duty to save money toward the final duty to save money toward the first payment on the extra horse that her husband simply had to have; she economizes in a hundred soul-racking, nerve-wasting ways, of which, to do him justice, her husband is quite un-aware; and she does it all in full faith that he will appreciate her sacrifice, love her the better for it, and that he will, as soon as his business is on a firm financial basis, be only tee glad to make it all up to her. The same that the will appreciate the same in a hundred it works one case in hundred it works one case represent the same age farm household where the housewife, having begun to 'get along' upt a limit of the same first had been a same first had age rarm nousehold where the house-wife, having begun to 'get along' without any conveniences, continues indefinitely to do so, while every year sees many a laber-saving device added to the outside equipment of the

The average farmer, when he mar-The average rarmer, when he mar-ries, has no intention of bringing about such a state of affairs. He means to take good care of his wife. bringing means to take good care of his wife. But precedent and the wife's toc willing self-sacrifice make the development easy of selfshiness of which he is almost if not quite unconscious. "Is not everything I possess hers, as much as my own?" he asks; and he thrusts aside Accusation with in-thrusts aside Accusation with indifference

EDUCATE OUR GIRLS EDUCATE OUT & GIRLS.

The ramedy for these undesirable conditions would seem to lie, first, in such an education of the girl in household economics as shall give her, along with a better equipment of voirs. Back the rice when done, and over the conditions of the condition of th such the such that the such th easily to impress her nusuand with the fact that the proper equipment of his home for up-to-date housekeep-ing means dollars in his pocket; in ing means dollars in his pocket; in many cases, even more truly than a fuller equipment of his farm with buildings and machinery. Such an education will also qualify her to enter more understandingly and with fuller sympathy into the plans of her husband for the conducting of "the farm husiness as a business." Such farm business as a business." Such a position once achieved, she will seldom lack "pin money" or his co-operation in the making of betterments in her own special province of bousekeeping.

COOPERATION IN LABOR

A second suggestion is the applica-tion, to the lessening of the farm woman's labors, of the cooperative methods which farmers are learning methods which farmers are learning to use, in the employment of expen-sive machinery, in the gathering and marketing of crops, in the improve-ment of their herds, and in the mak-ing of good roads. Why should not ment of their nerds, and in the maxing of good roads. Why should not a cooperative laundry, for instance be "run" alongside the cooperative creamery—a laundry where a few skilled workers, aided by machinery, may do the washing and ironing for a hundred farmsteads, thus relieving the weman of what is now one of her heaviest burdens? Why not have a

mers' and Women's Institutes, of the improvements in house-building and equipment constantly being made, and the adoption of which by his neighbors may stir the neglectful husband to emulation. Also, the comparison of financial methods and of household equipments, brought about by the meeting, from house to house, of the Farmers' Club, will have a beneficial effect.

#### Beautiful Old Women

We occasionally meet a women whose old age is as beautiful as the bloom of youth. We wonder how it has come about—what her secret is. Here are a few of the reasons:

She knew how to forget disagree

She knew how to lorger disagre-able things.

She kept her nerves well in hand and inflicted them on no one.

She mastered the art of saying pleasant things. She did not expect too much from

friends. She made whatever work came to She made whatever work came to her congenial. She retained her illusions, and did did not believe all the world wicked

did not belie

and unkind.

She relieved the miserable and sympathized with the sorrowful.

She never forgot that kind words and a smile cost nothing, but are priceless treasures to the encouraged. priceless treasures to the encouraged. She did unto others as she would be done by, and now that old age has come to her, and there is a halo of white hair about her head, she is loved and considered. This is the secret of a long life and a happy one. —McCall's Magazine. --------

# THE COOK'S CORNER

Recipes for publication are requested. Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy, Peterboro, Onk.

Ingredients—\( \) b best rice, 1\( \) to, of milk, an egg or two, sugar, flavoring. Bake the rice: when done, add to it half a pint ofm ilk, into which an egg or two, sugar to taste, and flavoring have been whisked. Bake very gently for three-quarters of an hour.

STRAWBERRY CREAM Ingredients—I pot of good straw-berry jam, 9 sheets of the best French gelatine, 1 qt. of cream. Take jam, and pass through a tammy, add the gelatine dissolved in a little milk, then add the cream whipped to a froth, put into a mould and lay on froth, put into a mould and lay on be mould in bot water and turn out the cream.

APPLE TART

cream.

Ingredients—Puff paste, apple marmalade, 1 egg. Lay a disc of puff paste on a round tin, spread a layer (about three-eighths of an inch thick) (about three-eighths of an inch thick) of apple marmlade over it, leaving a rim an inch wide clear all round; form a trellis work with them over the marmlade, then put a border of paste all round over the rim. Glaze the top of the border and trellis with beaten-up egg, and bake in quick

ECONOMICAL FRUIT CAKE

Ingredients—5 oz. of butter, 2 lbs. of flour, ½ lb. of sugar, 1 lb. of currants, 1 gill of yeast, enough milk to make a thick batter, 1 tablespoonful of powdered cinnamon. Mix the flour, leaving out a quarter of a pound, with the butter cut in small pieces, the sugar, cinnamon and fruit; add milk enough to form a thick batter, and lastly stir in the yeast. Mix it over night, and set it away to rise; heaviest burdens? Why not have a concertaive baker in the same place, to the saving, not only of the woman's labor, but often of cost also especially as fuel advances in price?

A further remedy may be found in the exploitation, through the Far.

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* The Sewing Room

Patterns 10 cents each. Order by number and size. If for children, give age; for adults, give bust measure for walsts, and wais measure for walsts. Address all orders to the chirts. Address all orders to Davatemen.

CHILD'S KIMONO COAT AND MUFF, 7267



Muffs made to match the coats are much used for little much used for little tots this season and they are very pretty and very attractive as well as thorough-ly comfortable. This ly comfortable. This coat is made in kim-one style so that it is very simple and the muff is just a

the muff is just a plain one trimmed with fur to match the collar and cuffa. For the 2 years 4 yards of material 27, 3 yards 54, 11.3 yards 44 linches wide with 314 yards of

fur banding.

This pattern is cut in sizes for children of 6 months, 1, 2 and 4 years of age.

CHILD'S DRESS WITH FRONT CLOSING



The girl's dress that is closed as the front has cer the front has cer-tain advantages. It is easy for the wearer to take on and off and it is in the height of

in the height of style.

For the 10 year size will be re-quired 4 yards of material 27, 314 yards 36, 3 yards 44 inches wida yards 36, 3 yards 44 inches wide with 11-2 yards 27 inches wide to trim as illustrat-

ed.
This pattern is cut in sizes for 8, 10 and 12 years

THREE-PIECE



Every possible tunic effect is in vogue. This skirt is absolutely new. The skirt is adapted to any two contrasting materials and it is overlapped the left side a the left side after a novel and in-teresting manner. For the medium size the skirt will require 334 yards of material 27 or 35, 212 yards 44 or 52 inches wide the trimming por-

with 134 yards 20 for the trimming por-tion, width of skirt at lower edge 214 This pattern is cut in sizes for a 22, 24, 26, 28, 30 and 32 inch waist measure. LONG COAT IN RUG STYLE,

PERFORATED FOR TWO LENGTHS INCLUDING THE PATTERN OF THE BAG No more useful no more useful garment can be found than such a coat as this one. It is ideal for traveling and for traveling and for motor wear. It is available for gen-eral use and it can be made from varbe made from var-ious materials. In the fillustration the entire coat is made from a white re-versible rug finish-ed with fringe on the edges, but any cloaking material can be used.

can be used.
For either size will be required 23-8 yards of material 56 inches wide or one rug 2 yards long and 13-4 yards wide.
This pattern is cut in two sizes, 34 or 36, 38 or 40 inrand ouffs.





# has become a specialized business

It's no longer a "hit-or-miss" occupation, where "any old way" is good enough. Farmers are buying pianos and automobiles as never before. They're *living* as well as *working*.

The farmer has learned that it pays to employ progressive methods. That's why he is ever ready to receive helpful suggestions for improving his crops, his land and his home. It's also the reason that more than fifty thousand Canadian farmers are enthusiastic about our handsome book.

# "What the Farmer Can Do With Concrete"

It isn't a catalogue, nor an argument for you to buy something. It is clearly-written, interesting, profusely illustrated. It describes the various uses to which concrete can be put on the farm. Not theories, but facts, based on the actual experience of farmers all over the continent. It is the most complete book on the subject ever published, fulfilling the

purpose behind it, which is to help the farmer take advantage of concrete's possibilities. The list of subjects covers every conceivable use for concrete on the farm. The book's actual value to you will far exceed the list price of fifty cents, but if you will send us your name and address at once we'll be glad to

# Send it to You Absolutely Free

Send a post card for it -- do it to-day. The book will be sent by return mail,

# Canada Cement Company

National Bank Building, Montreal



M A

Toronto, a men have their books from the men hat year al over the ye tory outlook Canadian N have asked that never but their but those in the sone too grant A review markets thi and other I are firm at

The exported the past offers a strength is the Argentia damage. Proceedings of springer No. 1 No. 2, \$1.061 feed wheat, the situation concerned. To outside.

There is a market; othe old levels. best demands arley, malit 70c; oats, Ct. 70c; oats, Go track; oorn, 6 cot to Montreal quo 2, 47c; No. 5, 45c; No. 4, 4 to \$1.69; bark

Prices are stions: Manito Ontario bran, prices are u \$23; shorts, \$2 shorts, \$27.

Hay and st level reached is particular quality at 8 market for straw is 88 to in bundles, An easier f ket at Monty slackened, as meet all retions are: 1 813.50 to 816;

The mark easier. Price are: Hides, 91-2c to 101 290c; horse his 32c; calf skin are: No. 1, 91-2c; calf skin are: No. 1, washed, 18c t

Wholesale ed. Strained 60-lb. tins, 11 buckwheat he barrels. No. a doz.

Prices bein lows: Alsike 89.25 to 89.50 811; No. 1, to \$10.50; tin No. 2, 86.25.

The potato Supplies are is at a mini prices. Deals \$1.25 in ear store. Delaw Montreal are bag for Gre ties, \$1.10 to Prices here. V II. TOIS

zed

cupa-

ough.

omo-

g as

vs to

why

rges-

and

nore

are

99

the

SSIerv

rm.

will

nts.

ime

lad

## \* MARKET REVIEW AND FORECAST

Toronto, Monday, January 8th—Business men have about finished balancing up their books for the year 19th, and reported their books for the year 19th, and reported their books for the year 19th. The most unsatisfactory increase over the year 19th. The most unsatisfactory outlook at the present time is in the Canadian North-West, where some firms have asked for renewals on their notes have asked for renewals on their notes that the year of the property of the results market apples are 25.50 to 82.40 for Market Pauli and the property of th

one too good.

A review of conditions in the produce arkets this week shows wheat strong and other lines steady. Cattle and hogs re firm at the old prices. Sheep are

WHEAT

The export trade in wheat has been letter this week than for many weeks past. Offers made to old Country firms have been accepted readily. This new strength is due to alazming news from the Argentine, where rust is doing great wheat will continue strong until the opening of spring at least. On the local mariest No. 1 Northern is quoted at 38, 93-15, No. 2, 81.68-14; No. 3, 81.68-14; No. 10, the observation of the control of the co

COARSE GRAINS

COARSE GRAINS

There is a stronger tone in the harloy market; otherwise prices are firm at the old levels. Buckwheat and rye are in best demand. Quotations are as follows: Barley, malting, 76 to 52c; feed, 60 to 70c; cats, C.W., No. 5, 47c; No. 5, 45,52c; track; corr., 60; peas, 81,65 to 81,15; nuckwheat, 60c to 55c, and rve, 9te to 55c. At Montreal quotations are: Oato, C.W., No. 5, 47c; No. 5, 49c; No. 1 local, 46c; No. 5, 65; No. 4, 40; corn, 70; 12c; peas, 81,56; No. 5, 40; corn, 70; 12c; peas, 81,56 to 81,50; bartley, malting, 70c to 75c; buckwheat, 72c.

MILL STUPPS. MILL STUFFS

Prices are steady at hist week's quota-tions: Manitoba bran, \$25; shorts, \$25; Ontario bran, \$24; shorts, \$25 Montreal prices are unchanged: Manitoba bran, \$25; shorts, \$25; Ontario bran, \$25 to \$24; shorts, \$27.

HAV AND STRAW

HAY AND STRAW
Hay and straw rule steady at the strong
level reached two weeks ago. The demand
is particularly briefs for hay of No. 1
quality at \$15 to \$17. There is a good
market for No. 2 at \$14 to \$14.50, and
straw is \$15 to \$17. There is a good
market for No. 2 at \$14 to \$14.50, and
straw is \$15 to \$17. There is a good
market for No. 2 at \$15 to \$17. straw
house, \$15 to \$15.
An easier feeling is reported in the market at Montreal. The export demand has
slackened, and supplies were sufficient to
meet all requirements. Nominal quotemeet all requirements. Nominal quotemeet all requirements. Sominal volume
\$1.50 to \$15. No. 3, \$15.50 to \$11.

\$15.50 to \$15. No. 3, \$15.50 to \$11.

HIDES AND WOOL

HIDES AND WOOL.

The market for hides is somewhat easier. Prices paid by country merchante are: Hides, cured. Int to il. 12-6; green!.

90; horse hides, 85.85; horse hair, 30e to 30e; calf skins, 18e to 18e. City quotations are: No. 1, 11-2e, No. 2, 10-2e; No. 5, 9 1-2e; calf skins, 18e to 18e. City quotations are: No. 1, 11-2e, No. 2, 10-2e; Collection of the control of the collection o

HONEY

Wholesale quotations remain unchang-ed. Strained clover honey is 10c to 11c in 60-lb. tins, 11c to 12c in 5 to 10-lb. tins; buckwheat honey, 6c to 7c in tins, 6.3-4c in barrels. No 1 comb honey is \$2.25 to \$2.50

SEEDS

Prices being paid by dealers are as follows: Alsike, fancy, 89.50 to \$10; No. 1, 99.55 to 89.50; No. 2, 89; red clover, fancy, \$11; No. 1, \$10.50 to \$10.75; No. 2, \$10.25 to \$10.50; timothy, fancy, \$7; No. 1, \$6.50; No. 2, \$6.25

POTATOES AND BEANS

POTATOES AND BEANS
The potato market is strong and steady.
Supplies are hard to get but consumption is at a minimum on account of the high prices. Dealers are paying for Ontarios \$1.50 in car lots and \$1.00 per bag out of store. Delawares are 5c more. Prices at Montreal are firm at \$1.50 to \$1.071.2 a bag for Green Mountains; Quebec varieties, \$1.10 to \$1.51.5.

EGGS AND POULTRY

Eggs have apparently reached the top price. The dealers' quotations of 350 to 466 for etricity new 'me to a fair supply. Eggs at 10 to 10 to 10 to 10 to 10 supply. Eggs at 111 retail at 50 to 66. Supplies at Montreal are ample for all re-quirements, and the demand is not as active as a week ago, though there have bell in price changes. No. 1 stock is sufficiently and the contraction of the 10 to 10 to 10 supplies the process of the 10 to 10 supplies the price of 10 to 10 to

Selects sell at 30c to 31c.

Dealers are quoting for dressed chickens
12c to 14c; fowl, 7c to 10c; and ducks, 12c
to 14c. On the retail market chickens sell
for 14c to 16c; fowl, 10c to 11c; turkeys, 20c
to 25c; ducks, 15c to 15c, and geese, 13c
to 15c.

DAIRY PRODUCE

DARN PRODUCE

Recent returns indicate that the production of dairy produce in Canada in 18th was about \$8.00,000 greater than the previous year. Mr. J. A. Ruddiok, Dairy Commissioner, predicts that the year 19th will be used to be used. The production and that production and that product a recommendation of the prints, 25c to 25c, and inferior, if to 5c. closed, so to 55c, and inferior, and the dairy between the production of the pr

The horse market is dull at present. Quotations are as follows: Heavy drafters \$175 to \$209; medium weight, \$170 to \$209; agricultural, good, \$160 to \$200; fair, \$100 to \$159; anddlers, \$150 to \$190; anddlers, \$150 to \$270; and express horses, \$160 to

LIVE STOCK

Supplies of live stook on the markets this week have been rather abort. Trade has not yet regained its full volume after the holiday. What supplies there were were of fair quality and taken up rapidly. There have been few price changes. Best expert steers sell around \$8.50 to \$8.60, to

strong prices next week. Sheep show a net gain of 250. Hest lambs have sold up as high as 87, but the bulk sell at 86.50. Eves go at 83.50, and bucks and culls at 83 to 83.50; and bucks and culls at 83 to 83.50; calves are 84 to 85.00. The market place is unchanged at 85.90 f.o.b. and 86.20 on the market.

on the market.
Live stock at Montreal is in stronger demand, and if the quality of the offering was equal to that of previous weeks, live stock values would have shown a 55e advance. Quotations are as follows: Butcher's cattle, choice, 85e.55 to 85.55; cambed, 83.56 to 85.75; medium, 84.75 to 85.55; camber, 81.50 to 83.25; choice, 85.50 to 85.75; medium, 84.75 to 85.55; camber, 81.50 to 83.25; choice, 850 to 860; and springers, 83.00 to 840; camber of statements of the statement of the statemen

Lambs have scored an unusual advance and are worth 50c to 75c more than in previous weeks, selling at 87; ewes, 84; bucks and culls, 85.50 to 83.75. Calves are 85 to 815.

Buffalo Live Stock: Prime steers, 87.25 to 88; butchers' cattle, 84.75 to 87.50; ahippers, 8.62 to 87.52; cows, 8.2.25 to 8.50; cows, 8.2.25 to 85.60; choice lambs, 87.30 to 87.40; year-lings, 85 to 85.75; sheep, 82 to 84.50; hogs, Yorkers, 86.40 to 86.45; mixed, 86.45 to 85.50.

MONTREAL HOG MARKET

Montreal, Saturday, Jan. 5.—The pr. f live hogs advanced on this market the supplies are hard to get but consumption of a ta minimum on account of the high prices. Dealers are paying for Ontarios \$1.50 in car lot and \$1.60 per bag out of tore. Delawares are 5c more. Prices at adolares. Selected lots weighted off cars at old received and \$1.60 per bag out of tore. Delawares are 5c more. Prices at adolares. All the state of the selection EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE
Montreal, Saturday, Jan. 7.—The demand for cheese from Great Britain has been very active during the past week, and sa a result the stock of cheese unsold has been reduced almost to the vanishing the past week, and sa a result the stock of cheese unsold has been reduced almost to the vanishing the solid property of the solid

THE SOUTHERN ONTARIO HOLSTEIN BREEDERS' GREAT SALE

THE SOUTHERN ONTAKIO HOLSTEIN
BREEDERS GREAT SALE
(Continued from page 10)
Queen De Kol Posch, Nov. 16, 1994, 8250,
G. S. Gooderham, Bedford Park.
Flora Pieterije eth, March 2, 1906, 8225,
Flora Pieterije eth, March 2, 1906, 8225,
G. S. Gooderham, Bedford Park.
De Statistic Pieterije eth, March 2, 1906, 8225,
G. S. Gooderham, Bedford Park.
Anggie De Boer, Feb. 29, 1909, 8225, T.
F. Hattison, Throrold.
J. Holley Bedford, N. B.
Flossie Abberserk, April 15, 1910, 8755, Mr.
Harding, Welsford, N. B.
Brookfield, Tillsonburg.
Snowflake of Oxford, May 12, 1910, 8155,
Snowflake of Oxford, May 12, 1910, 8156,
B. J. Rockfield, Tillsonburg.
Sin Bell Fayne, March 13, 1911, 875, John
Clarkon, Summerville.
Silö, B. J. Kelly, Tillsonburg.
CONSIGNED BY R. J. KELLY,
TILLSONBURG
Mereedes Chanary Fleterije, S256, G. S.
Gooderham, Bedford Park.
TILLSONBURG Netherland, Feb. 15, 1907,
Stratford's Netherland, Feb. 15, 1907,
Stratford's Netherland, Feb. 15, 1904,

Tensen of Elmwood, June 5, 1907, \$190, G. S. Gooderham.
Stratford's Netherland, Feb. 15, 1904, \$180, A. P. Gray.
Lily of Elmwood, Sept. 24, 1906, \$155, R. Brookfield.
Roxie of Elmwood, May 1, 1906, \$225, T.

Mercena of Campbelltown, June 9, 1910,

Mercena of Campbelltown, June 9, 1949, 8165, G. 8. Gooderham. Dot's Abberkerk of Campbelltown, Nov. 9, 1910, 8110, Geo. Kilgour, Avon, Ont. King Coin, Nov. 14, 1911, 835, T. Leslie, Northville Station.

Northville Station.

Pauline's Abberkerk of Campbelltown,
Nov. 11, 1911, 850, E. Hunt, Lynden.

CONSIGNED BY G. RICE, TILLSONBURG 

Bessie Spink Wietske, April 23, 1908, \$175, A. W. Harwood, Hickson. Bessie Spink Abberkerk, July 15, 1906, \$245, A. P. Gray.

A. 1. \*\* \*\*AR\*HOOM\*\* . HINSON\*\* . \*\*
\*\*AB\*\*\* A. P. G. Tay . \*\*
\*\*AB\*\*\* A. P. G. Tay . \*\*
\*\*AB\*\*\* A. P. G. Tay . \*\*
\*\*Mechthide Pietertje De Kol. Dee 5.
\*\*Port . \*\*
\*\*Port . \*\*
\*\*AB\*\*\* A. Tay . Tay

English.

Belle De Kol Lily, Aug. 23, 1909, \$135, A.

W. Harwood. DITTE

Mercedes Albino De Kol, Nov. 22, 1911, 870, John Preston, Brownsville.

## AYRSHIRES

SUNNYSIDE AVDSHIDES

SUNNYSIDE AYRSHIRES.
Imported and home bred, are of the
choloses breeding of good type and have
considered by the state of the
choloses breeding of good type and have
considered by the state of the
considered by the
con

AYRSHIRES We have on hand several thrifty young Bulls of your type from R. O. P. YORKSHIRES Prices remove the top to your hand boars on hand. Write for prices be your and boars on hand. Write for prices be fore buying. ALEX. HUME & CO. - - Monie, Ont.

Hoard's Station, G. T. R.

CITY VIEW AYRSHIRES.

R. O. P. cows and two-yearoid heifers for sale; one yearling bull and a fine lot of 1911 bull caives. Prices reasonable. Write or phone.

JAMES BEGG, R. R. No. I. St. Thomas

**Avrshires and Yorkshires** 

FOR SALE—High class Ayrshires, all ages, including three buils fit for service. Yorkshire pigs, all ages. First price boar and sows 18 months old. Apply to MON. W. OWENS, ROBERT SINTON MANAGER Riverside Farm, Montebello, Que

THE SPRINGRANK HERD OF AVRSHIRES IRE SPHINIDAME HERD OF AYRSHRES Contain more world's Champion milk and butter producers than any other herd in the contain more contained to the contained to t

Avrshires

World's Champion herd for milk and production. Some young buils and buil caives, all from R.O.P. cows for sale. A grandson of Primrose of Tanglewyld in the lot. Address WOODDISSE BROS., Tanglewyld Parm BOTHSAY, ONTARIO

**Burnside Ayrshires** 

Winners in the show ring and dairy tests. Animals of both sexes, Imported or Canadian bred, for sale,

Long distance phone in house. R. R. NESS.

HOWICK, QUE.

**CHOICE AYRSHIRES** Are Bred at "OHERRY BANK"

A few young bull calves for sale. Write for prices,

P.D. McARTHUR, North Georgetown Howick Station on G. T. Ry. Qu

LAKESIDE AYRSHIRES

We have a number of fine young bulls of different ages, all sired by our imported bull and the majority of them from dams entered or qualified for the record of performance. To make room for the winter we are prepared to offer these at attractive prices.

LAKESIDE FARE, PHILIPSBURG, QUE GEO. H. MONTGOMERY, Prop.

# HOLSTFINS

# Centre & Hillview Holsteins



and co.se in so days; asso a cycar-d giving 23,83 ibs. butter in 7 days and 1.67 in 30 days. FOR SALE: Bulls up to one year old; iso females, all ages, with official back-

## P. D. EDE

Oxford Centre P. O., Ont. Long distance phone. Woodstock Station.

AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

We offer bull calves, all ages, and all out of tested dams. One is a son of Sir Johanna Colahtha Gliddi, being a grand-son of Colantha Johanna Lad and Pon-tiae Korndyke, and from a 25 lb. three-year-oid dam. Also HORN DORSET SHEEP and YORK.

Address all correspondence to

H. LORNE LOGAN, Manager Brockville, Oni.

# LAKEVIEW HOLSTEINS

Ball calf born March 25th, 1911, streed by Count Hengerveld Payer Do Kol and out Count Hengerveld Payer Do Kol and out Count Hengerveld Payer Do Kol and out of Suka Sivita When Sant County of Suka Sivita the Kol. Il be because of Suka Sivita the Kol. Il be because of the Suka Sivita the Kol. Il be because of the Suka Sivita the Kol. Il be because of these and several others equal) Food on these and several others equal)

Telephone. E. F. OSLER. BRONTE, ONT.

Maple Grove Stock Farm Offers a few young cows and heifers (improved and home bred), bred to slir Offer
King Lyons Hengeryeld, whose 7 nearest female ancestors have butler records
Among the offering are cows with records of over 1500 hs. milk in the year
made under ordinary farm conditions. If you want stock of this kind write

H. BOLLERT, TAVISTOCK, R. R. No. 5, ONTARIO.

# Lyndale Holsteins

Offers two, young bulls born September, 1910, one of them from a tested daughter of Brightest Canary and sired by a son of a 20.55 b, yearling daughter of Henger-reld De Kol.

BROWN BROS., - LYN, ONT

# FOR HOLSTEIN BULL CALVES

SALE HULDIEIN BULL UNLYLED
Bull calf, borr Feb. 2. whose four neareat dams average 27 lbs. of butter in 7
days. Another born May 16; dam first
cow in Canada of her age to make 20 lbs.
of butter in 7 days. Bull calf born Jan.
of them, daughter of dam of number 2
days of 14,99 lbs. buller in 7 days. Also
two-pear-old stock bull.

David Caughell, Yarmouth Centre. Ont.

# HOLSTEINS



If you are wanting HOL. STEINS, any age, either sex. GORDON M. MANHARD, Manhard, Ont.

RIVERSIDE Herd headed by Prince De HOLSTEINS pion the dam was cham-ber the state of the sta

J. W. RICHARDSON - Caledonia, Ont.

Count Paul Mercedes, March 1, 1911, 880, J. H. Trembley. Count Disic Wayne, Jan. 10, 1911, 875, J. Adversen, The Grove, March Peb. 3, 1911, 875, Both. Oliver, St. Marys. Mercedes Abberkerk De Kol, Feb. 24, 1911, 886, Peter Fick, Port Royal. 1911, 886, Peter Fick, Port Royal. 856, Hiram Sun Maryse. Nov. 10, 1916, 856, Hiram Sun Maryse.

BULLS UNDER SIX MONTHS Prilly Ormsby Hartog, Aug. 23, 1911, 870,

Prilly Ormsby Hartog, Aug. 23, 1911, \$70, as. E. Harrison.

Modest Rouble Hartog, Aug. 20, 1911, \$35,
Whittaufer, Cassel.
Prilly Mercena Jewel, Aug. 12, 1911, \$35,
Benfield, Woodstock.

CONSIGNED BY JAS. RETTIE, NORWICH

CONSIGNED BY JAS. RETTIE, NORWICH Pontiac Atlas Maid. Nov. 12, 1904, \$300, G. S. Gooderham.
Irone Mercena De Kol. Dec. 25, 1908, \$1500, John McKenzie, Willowdale.
Pietertie Poem Srd. Jan. 8, 1909, \$200, J. Horry wood.
Homory, Cherry wood.
Homoro & Lawleys.
Schulling Mercena Posch. Aug. 12, 1910, \$150, Murro & Lawleys.
Schulling Mercena Posch. Aug. 12, 1910, \$170, W. H. Cherry, Garnett, Sir Francy Canary, March 12, 1911, \$125, 7. H. Dent, Woodtsch.

CONSIGNED BY EDMUND LAIDLAW & SONS, AYLMER, W., ONT.

Lady Belle Gretqui, Jan. 23, 1908, \$120,

# HOLSTEINS FAIRVIEW FARM HERD

Too much money is spent every year for poor bulls. Why not buy a good one? Sons of Pontiac Korndyke, Rag Apple Korndyke, and Sir Johanna Colantha Gladi for sale: 180 head in herd. Come and see them

E. H. DOLLAR. Heuvelton, N.Y.

#### PENINSULA FARM HOLSTEINS

Young bulls for sale from Record of Merit cows and Winter Fair prize win-

ners.
Prices reasonable

H, T. PATTERSON, ALFRED JCT., ONT

# "LES CHENAUX FARMS"

VAUDREUIL, QUE.

HOLSTEINS-Winners-in the ring and a land. Cold Medal herd as Ottawa Pair.

They combine Conformation and Production.
Bull and Heffer Calves from our winners for ance DR. L. de L. MARWOOD, D. BODEN
Prop. Man.

# Summer Hill Holsteins

Present offering: 15 yearling halfess in calf. 10 imported helfers (some heed). 1 buil calf from a 15%-b dam. buil calf from a 25%-b. junior 4-year-old, 1 & 10 more for a 15%-b dam. buil calf from a 25%-b. junior 4-year-old, 1 & 10 more for a 15%-b dam. buil calf. 1 more for a 15%-b dam. built calf. 1 more for a 15%-b dam. built calf. 1 more formal stock built, who is sire of the 15%-b dam. built calf. 1 more formal stock built, who is sire of the 15%-b dam. I more formal for a 15%-b dam. built calf. 1 more formal Trains met when advised.

D. C. FLATT & SON HAMILTON, ONT.

# CEDAR VIEW HOLSTEINS

High Class Registered Holsteins All Ages FOR SALE Best Breeding Can Supply a Car Load. Price Right

C. P. R. G. W. CUDA.

Bell Phone
TWEED - ONT. G. W. COUNTRYMAN

De Kol Paul Baroness Topsy, April 28, 1994, 8269, Graham Bros. Claremont. 1994, 8269, Graham Bros. Claremont. 1994, 8309, T. Logan. Princess Buildet. 1994, 1996, 1997, 1998,

Brookfield

Fanny Forn, April 20, 1990, 8130, Mr Millia,

Bessie Texal Pietertje, Oet. 15, 1994, 8600,

W. F. Elliott.

Houwtje Calamity Poseth, Jan. 29, 1996,

S30, E. A. Lloyd.

National Calamity Poseth, Jan. 21, 1998,

S30, E. A. Lloyd.

National Calamity Poseth, Jan. 21, 1998,

S30, Graham Brox, Claremont.

Houwtje De Kol. Lady. April 23, 1997,

S15, T. Loggeth Keut Ind, April 30, 1998, 8250, Wm.

Bettler, Derechan Centre.

TWO-YEAR-OLD HEIPEDS

Axie Posch De Kol, Feb. 28, 1909, 8275, T.

Lady Princess Hiawatha, April 30, 1909, 2205, Mr. Armstroug, Tillsonburg. Homestead Gem, Sept. 25, 1909, 8210, Mun-oe & Lawless. Homestead Gem. Sept. 25, 1909, 8210, Mun-roe & Lawless. Substitute for Homestead Houtwtje Calamity, Oct. 2, 1909, \$300, C. V. Robins, River Bond.

Rhetta De Kol, April 26, 1909, 8280, Mun oe & Lawless

ne & Lawless. Cairngorm Aaggie, March 8, 1909, \$340, G. Gooderham S. Gooderham.
Substitute for Hillview Queen, March 20,
1999, 885, Chas. Winner, 2st, Bridge.
Hillview Jean De Kol., March 10, 1909,
8275. Munroe & Lawless.
Floss of Cairngorm, April 26, 1909, \$150,
Munroe & Lawless.

BITLIG

Homestead Colantha Prince Canary, Dec. 9, 1910, 8120, Wm. Watson, Pine Grove, Sir Colantha De Kol, Feb. 7, 1911, 870,

Sir Colantha De Koj, Feb. 7, 1911, 870, Wn. Butler Homestead King Colantha Abbekerk, Oct. 27, 1910, 8100, B. Campbell, Komoka. Bewunde Sir Abbekerk, March 31, 1911, 845, John Fulton, Brownsville. Lord Faforit Mercena, Nov. 9, 1910, 845, Hatch, Eden.

J. Hatch. Eden.
Homestead Sir Colantha Calamity, Nov.
16, 1910, 8155, N. Butlet, Renton.
Sir National Colantha, Feb. 16, 1911, 870.
Wm. Snider, New Dereham.
Sir Colantha Lad, May 14, 1911, 840. E.
Sturling, St. Williams.

Sir Dewdrop Colamus, e.e., Elico Elliott.
Prince Faforit Mercena De Kol, Jan. 4,
Prince Faforit Mercena De Kol, Jan. 4,
911, 955, N. R. Minshal, Deliner,
Sir Boutsje De Kol, Feb. 5, 1911, 856, J.
cangdon, Verchoyle.

BULLS UNDER SIX MONTHS Sir Abbekerk Dewdrop, Sept. 11, 1911. \$105, Mr. Treblicock, The Grove

SALE DATES

SALE DATES

Bertram Hoskin, of The Gully, P.O., Ont. claims March 7th, 1912, as the date on which he will sell Holsteins and Tam-

#### SUCCESS WITH LIGHT HORSES

SUCCESS WITH LIGHT HORSES
One of the few men in Canada who has
made a success breeding and handling
of light horses is Mr. A. S. Turner, Ryckman's Corners, whose farm won fourth
competition and the few men and the few
an account in Farm and Dairy of the
success Mr. Turner had made of some of
the horses he has handled. Since then
the few men and the syear of the few men and the

no M. Richards and the second of the second

During the past two years Vera B. won ver \$1,500 in prize money for Mr. Turner. besides doing enough work on the farm besides doing enough work on the farm to more than earn her keep. Vers B. was a great favorite with Mr. Turner's daughter, Miss Turner, who may be seen in the illustration. She was never driv-en except by Mr. Turner and Miss Turner, with the exception that she was occasionally exercised by Mr. Turner's thirteen-year-old daughter. Miss Turner, like her father, is very fond of a good horse and is a splendid driver.

# HOLSTEINS

# **WOODCREST HOLSTEINS**



A few choice Bull
Calves for sale; six to
ten months old. Some of
Homestead Girl De Kol
Sarcastic Lad, and grandsons of Pietertje Sind. Recently ta
berculin tested by a U. S. inspector.

Write for pedigrees and prices.

WOODCREST FARM RIFTON: ULSTER CO. - - NEW YORK

LAKESIDE DAIRY AND STOCK FARM Offers two bull calves of 9 and it months. Dam of 10 months calf, half sister of Francy 3rd. Sire. grandson of Snrh Jewel Hengerveld 3rd, a good straight calf.

alf.
Bull calves and a few females, priced orth the money. F. BELL, BRITTANNIA BAY, ONT.

# RIVERVIEW HERD

Offers bull calves from 2 to 10 mos. of SIRED BY KING ISEBELLE WALKER SIRED BY KING ISEBELLIE WALKER. whose 5 nearest dams and sister average 30.18 LBS. BUTTER IN 7 DAYS and 115.87 lbs. in 30 days from dams of likewise breeding, at exceptionally low figures, to

P. J. SALLEY, ACHINE RAPIDS, QUE.

AUCTIONEER My lifetime has been devoted to Breeding listens and selling Dairy Oattle. Have sold sales from the Atlantic to the Paoific weperlence is up to you.—ROBERT E. HAEGER, ALGONQUIN, ILL.

# Leslie Farm Holsteins

FOR SALE—Two young bulls fit for service, one from a 21 lb. four-year-old, the other from a 24 lb. cow. Both are good individuals and have high testing dams on both sides. Write for further infor-

mation. WOODSTOCK, ONT. R. R. No. 7.



Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
stars ros First ILLUSTRATE BOOKLETS
Holstein Friesian Asso. Box 148. Battleboro Vt

BUYS A YOUNG BULL. \$75 fit for service, sired by Inka Sylva Beets Posch, sire of May Echo Sylva Beets Posca, sire of May Echo Sylva, that sold for \$1000 at 2 years. This bull is out of an Officially Tested Daughter of Count Gerben. Evenly marked and d straight as a string. Long Distance Phone

E. B. MALLORY. FRANKFORD, ONT.

# HOMESTEAD HOLSTEIN HERD

Home of Helbon Dekel, Ganadian champion ow for 7 and 39 days, vis. 31.54 lbs thetre in 7 days. 128.77 lbs. in 39 days.

Herd is headed by Dutchland Colantha.

Herd is headed by Dutchland Colantha. 25 days.

Dekel, made 34 days daw. Tidy Fauline sire's dam Coalntha 4th's Johnnay. Said sire's dam Coalntha 4th's Johnnay. We have the choicest young bulls we ever had the choicest young bulls we ever had offer. Better speak early if you want one.

one.
E. LAIDLAW & SONS.
AYLMER WEST, ONT.

FERNDALE STOCK FARM

Clydesdale Horses and Holstein Cattle Gydescale Porses and Moistein Cattie were never stronger than now. We have to 15 bulls from Korndyke King Schillar, who ho sized two 37 h., cow. Also 46 grade helfers rising 2 years old, bred to freshen from now on. Visitors on giving notice will be met at the CP R. Catslow, Mt. Bigin. Phone 167.

FIERHELLER BROS. - Mt. Elgin, Ont.

Ianuary \*\*\*\*\*\*\*

OUR F Corr

cor COMPTON, I to hold out buying up all Phey are payi barn. Beef 50c a dozen to go up

CAR
RITANNIA
is all gone, th
are \$1.40 a b
fromts, 61.2c
turkeys, 19c t
hay, \$10 to 5
\$1; butter, 30
there would
farmers have
yet.—J.A.D. HAS

CHAPMAN, tinues mild, w has been much damage to the good demand, number are be shoats are gui what lower the from \$12 to \$1 PET

LASSWADE, times dull, as quite a lumber colder, and we school meeting are the order of thes are rathes at \$1.50 a bag; 22c to 25c—M. BR

BR.

FALKLAND.,
thing in the wis have had no all much colder to smoth the same that th OXF WOODSTOCK. ry cold for a sleighing, b any of the fa ort of feed. ( mber are mill milk is high Toronto. Mo ere all summ

ELG PAYNE'S MILI s are going the er says: "We having at preser This is retailed \$18 a ton. When we manage to and did a bale day. We spurted ing from 110 lbs gasoline engine, lons for every t mets about 20c.

BRII HEPWORTH, J. ed through a ve

u Can't Cut Ou AB

1, 1912

she was or

she was of dr. Turner's Miss Turner, d of a good ver.

oice Bull e; six to Some of De Kol

De Kol and grand-ecently to inspector prices.

RM NEW YORK

K FARM 9 and 10 lf, half sis-dson of Sa-od straight

les, priced BAY, ONT.

ERD mos. old WALKER, er average and 115.87 f likewise figures, to

IDS. QUE has been Breeding tle. Have be Pacific. OBERT E.

eins

for servicely the are gooding dams or infor-

CK. ONT.

ATTLE Breed BROOKLETS tleboro Vt

BULL,

1000 at fficially Evenly

D. ONT.

D

o cham-1.54 lbs. lays. olantha Pauline ys, and a 35.22 ar. We wer had u want

ONT

Cattle reiors r, who

i, bred at the

, Ont.

м

NS STEINS

COMPTON CO., QUE.

OMPTON, Dec. 16.—Hay does not seem to hold out very well and dealers are buying up all they can find to ship away. They are paying around \$10 a ton in the harn. Beef is high and eggs are 40c to 50c a dozen. Pork is 50c to 90c and promisest og ou psoom—M. GO.

ONTARIO

CARLETON CO., ONT.

CARLETON CO., ONT.

BITTANNIA BAY, Dec. 27—As sleighing is all gone, the market is small. Potatoes are the policy of the policy. Side to 9 for light; genee, 10:0, unleasy, 10:0 to 9 for light; genee, 10:0, unleasy, 10:0, u

HASTINGS CO., ONT.

CHAPMAN, Jan. 4.—The weather contluses mild. with very little snow. We have not had any aleighing yet, but there has been much rain, which caused much good demand, and sell for root parts at sampler are being shipped to the West. Bloats are cuite plentful, and sell somewhat lower than last year. Hay is worth from \$12 to \$15 a ton.—H. S. T.

\*\*PETREMBORO. ONT.

PETERBORO, ONT.

PETERBORO, ONT.

LASSWADE, Jan. 1—16tile enow makes
times dull, as this part of the county is
quite a lumbering point. The weather is
collect, and we hope to get more snow,
shool meetings and municipal elections
are the order of the day fust now. Potatess are rather scarce. They are quoted
at \$1.50 a bag; hay, \$12; oats, \$60c; butter,
12. to \$50c—M. W. \$12; oats, \$60c; butter,
12. to \$50c—M.

To So-W May, Sil; oats, 80c; butter.

To 10 50-W May T. CO. 90T.

PAIAKLAND, Jan. 4-We are bury getting in the vinter's supply of wood. We have had no sleighing, but the weather is much colder than during the last of December. Hay is very dear, bringing from 15 to \$18. Starw is scarce, and much of the stock is bedded very scandily. Many supply the start of the stock is bedded very scandily. Many successful to the start of the star

OXFORD CO., ONT.

OXFORD CO., ONT.

WOODSTOCK, Jon 2.—We are having vary changeable weather. It has been vary cold for a couple of days. We have no sleighing, but very good wheeling. Sany of the farmers are straid of being short of feed. Cattle are doing well. A number are milking all winter. The price of milk is high; a great deal of it goes to Toronto. Most of it will probably go to Toronto. Most of it will probably so \$1.00 to \$

ELGIN CO., ONT.

PLOIN CO., ONT.

PAYNES MILLS, Jan. 4—The hay present are going their rounds, and the manager says: "We find hay quite plentful, laving at present about 100 tons to press. Bis is retailed in St. Thomsa at ST to a did a bale per minute, the bales produced to the press. The present about 100 tons to press. The present about 200 minutes, and use about two galaxies about 200 tons to the press. The present about 200 minutes, and use about two galaxies about 200 minutes, and use about two galaxies about 200 minutes. The present about 200 minutes 200 minutes about 200 minutes 200 minutes about 200 minutes 200 minut

HEPWORTH, Jan. 2.—We have just passed through a very mild December, but it has again turned cold. Sleighs are run-

Tou Can't Cut Out or THOROUGHPIN, but

OUR FARMERS' CLUB CORRESPONDED TO THE STATE OF THE STATE

HURON CO., ONT.

HURON CO., ONT.
BITTH. Jan. 2.—There has been no sleighing, and many are waiting for snow. There is little lumbering done. Wood is getting scarce and many farmers use some coal. Outle a number, especially the younger men, are intending to attend the short ourses at due-lph during the coming six weeks. Each year more are attending these ourses, which goes to show the ever increasing appreciation of sericultural education.—B. E.

NIPISSING CO., ONT.

NIPISSING CO., ONT.
COURLANG, Jan. E.—The weather during the past 14 days has been cold, the
thermomoter falling as low as 25 degrees
below zero. Feed stuffs remain same as
last quoted. Canned goods are 25 per cent dearer. Strawberries were planted here
last fall, and before the snow were looking good and healthy. Results are engerip awaited—E. B. 8.

BRITISH COLUMBIA

SIMILAMEEN DISTRICT. B.C.

AILLEN GROVE, Dec. 26.—The winter has been very mild so far, and practically no snow on hillsides. Stock running on the range is in fine order. On account of the range is in fine order. On account of the control of the SIMILKAMEEN DISTRICT, B.C.

#### HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Friesian Association, all of whose members of a readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

YONGE ST. BREEDERS' SALE

Continued from last week)
Delay Faforit, 19,471 lbs. of milk in 11
months as a two-year-old, is one of the
many good ones in Mr. O. Bales' herd, and
her calf by Sherwood Faforit Posch will
be in the sale.

he in the sale.

"Ifvacishty," 51564 lbs. milk in 11 mouths, 451.7 lbs. fat, will freshen about the middle of February. She too will be in the sale, and as she is bred to the 1500 bull. "Bir Lyons Hengerveld Segia, at 1500 bull." Bir Lyons Hengerveld Segia, and Fator of the helfers to be offered are from old Fatoris 16th dame, from a 26 lb dam. These are nice straight helfers. Both are in ealt to Sir Lyons Hengerveld Segia, as in ealt to Sir Lyons Hengerveld Segia, as contact the content of the breeding of this bull is given farther on in these notes.

Cattle Consigned by 3. H. Baites.

Cattle Consigned by S. H. Bales

manage to press from 15 tons up a did a bale per minute, the hales got did a bale per minute, the hales got did a bale per minute, the hales got minute the minute of the minute about the a ton. We are now almost a construction of the minute about the a ton. We are now almost about the about the minute about the a ton. We are now almost about the minute and the other, a four-with an again turned cold. Sleighs are run-will as a minute of the minut

Mr. R. F. Hicks' Consignment
Mr. R. F. Hicks has consigned 15 to the
sails. 13 the first three built cares.
These calves are since the property of the colors
De Kol. son of Rideau Dalles Lean be
Kol. 21.75 the. butter in seven days, full
sister to cow that made 15.60 the. milk
in 10 months, half sister to Lady Angele
lin 12 months, half sister to Lady Angele
Fairs, half alster to Mr. van Patter's Cenaddan champion cow of two years ago.
Amongst the cow that Mr. Hicks is
offering is Shewwood Gano, a cow with a
record of 17.650 the. milk and 281 the.
butter is 12 months. Her average fat
two year-old untested daughter out of
Shewwood Gano will also be in the saile.
Other cows to be sold are Verbelle De

Sherwood Gano will also be in the sale. Other cows to be sold are Verbelle De Kol May. Her dam is a full sister to 'May Echo, 't the Canadian champion cow for official yearly work: Calamity strain: four two-year-garden strain: four two-year-garden strain: four two-year-garden colors, two yearling heffers and a heifer calf. This heifer calf is out of Sherwood Canada Sherwood Canad

Eight of these heifers of Mr. Hicks offering will be in calf to the \$1,500 bull, "Sir Lyons Hangerveld Segis."

"Sir Lyons Hangerveld Segis."

This great bull is one of the strong "cards" that these breeders have. His stock should be especially valuable, as the following, giving his breedings from the following, giving his breedings from the following, giving his breedings and 3.39 lbs. butter in seven days, 134 lbs. in 36 days. He is eight by King Segis. His dam and her full sister average 3.35 lbs. butter laware days.

in seren days.

There is no other bull, it is said, on this side of the line, as yet, to beat this bull Sir Lyons Hengerred Segis. His dam, together with her full sister, two daughters sired by their brother, the sire's dam and two grand dams average 32 lbs.; thus the seven nearest fermise average 33 lbs. butter in seven days, which is truly a great and remarkable combinatorially as the seven days.

truly a great and remarkance counstantion.

This bull has two full brothers that are in big herds. One of them, Pietertje are in between the pietertje consideration of the pietertje consideration of the pietertje consideration of the pieter than 20 lbs. in seven days at an average of two years three months. These cattle are exceptional individuals. The cattle are exceptional individuals. The cattle producers of the pieter of the pie

which is a four-year-old. He is offering four heliers and four owns. The four heliers and four owns. The four heliers are not to the four heliers are not to the four heliers and the four heliers and the four heliers are not found to the four heliers and the four heliers and the four heliers are not found to the four heliers and the four heliers and the four heliers and the four heliers are not of richly bred stock and are nice, straight individuals, giving indications of straight individuals, from indications of straight individuals, from indications of the four heliers and the four heliers are in ealf to the high-priced bull Sir Lyons Hengerveld Segia, the bull which has such exceptionally good backing—in feat, said to be the best in Causada, and the four heliers are not found to the four heliers and the four heliers are made in these columns last week, (Continued next week)

(Continued next week)

and make it pump your water, grind you eed saw wood, run grindstone, drive ma hinery of all kiuds. Cheapest Power for Farm and Dairy

ecause nature supplies it. The most willing, least troublesome and most dependable

CANADIAN AIRMOTORS

best by the test of years of service book tells why. Write for a co ONTARIO WIND ENGINE AND PUMP CO. Winnings, TORONTO, Calgary



# NEWVERMIFUGE

The best and most effective remedy for Bots and other worms in horses. (Guaranteed by the Farmer's Horse Remedy Co., under the Pure Food and Drugs and Co., under the Pure Food and Drugs Co., under the Pure Food Co., under

Farmers' Horse Remedy Co., Dept. 592 - 7th St., Milwaukee, Wisconsin Dept. A.8.

How to Completely Cure
nearly too diseases of
farm stock is told in
FLEMING'S VEST
POCKET VETERIN
ARY AD VISER
Write for this indexed,
illustr.ted 90 page

illustr\_ted 96 page book—it's free. Tells how to cure the dreaded



**LUMP JAW** 

in a safe, quick, easy way. The first successful cure the one that cures the highest percent-age of cases, and the worst one's, is

Fleming's Lump
Jaw Cure
If it or any other of Fleming's Remedies fails to cure, we will refund your money.

FLEMING BROS., Chemists, os Church St., Toronto.

# BREEDERS' DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year.' No oard accepted under two lines, nor for less than six months, or 8 insertions during televe mosths.

FOR TAMWORTH SWINE-Write John W. Todd. Corinth. Ont., B.F.D. No. 1.

CLYDESDALES, Imp. Skillions and Fillies. Fresh Importations always on hand. Fevry mare guaranteed in foal. The control of the first property of the control of the

HAMPSHIRE PIGS—Canadian Champion herd, Boar herd headers, Sows three months and under—Hastings Bros. Cross. 1, Ont.

Cross, L. Ont.

CLYDESDALES—Home of Acme. (imp.)

Holsteins—Home of King Fayne Segis

Ciothilde, nearest 7 dams 27 lbs. butter
per week, and Broken Weish Ponies.—

R. M. Holtby, G.T.R. & P.O., Manchester, Ont., Myrtle, O.P.R.

YORKSHIRE AND TAMWORTH HOGS-Plymouth Rook and Orpington Fowl-A. Dynes, 434 Parkdale Ave., Ottawa.

HOLSTEINS AND TAMWORTHS—All ages also S.C.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willow dale. Ontario.

HOLSTEINS—Young stock, for sale. Sired by Imperial Pauline DeKol, whose 15 nearest dams average 25.20 lbs. butter in 7 days.—R. W. Walker, Utios, Ont.

TAMWORTH SWINE—Choice stock for sale at all times at reasonable prices Correspondence invited.—Wm. Keith & Son, Listowel, Ont. Bell phone.

# MORE MONEY IN FARM

# The Rogers Book Tells The Way FREE

E want to see you run your farm with about half the work you do now, and at about half the money cost you pay out now. If you can do this, you get more money and live easier.

# This Free Book Opens the Way to Modern Farming

That is why we are offering a free book on Portland Cement. We want to see you use hard, clean concrete fit-tings on your farm instead of wood that decays, burns and destroys itself and the things it shelters. We want you to see how cheap and easy it is to use This book shows how you concrete. can make these fittings and fixtures and buildings one at a time easily in your spare time. Concrete fixtures pay better than anything you can use on your farm.

## Follow Big Experimental Farm Methods at Home

But we don't want you to take our word about concrete. We refer you to the Guelph Experimental Farm. you went there 20 years ago. If you did, you will remember the buildings they had. If you compare those buildings with the buildings they have to-day, you will see that nearly all the new buildings are concrete. They have a reason for using concrete. It is just the same reason why you should use it. It is because concrete pays on the farm.

### Wood is a Costly Drawback to Economy. But Concrete Supplants Wood

Wood fixtures are costly this way. You have to pay about \$100 to buy timber, boards and carpenter services to make a \$100 improvement on your farm. You pay out this \$100 in cash. Whatever this improvement happens to be it is liable to burn, and may burn by accident. Just by having it, your whole set of farm buildings may burn up-say \$2,000 worth of equipment.

Now, you will see how unwise that is-to put wood on your farm, especially when you have to pay its full cost in hard-earned dollars to get it built. For years and years, you have to keep tinkering at this wood to keep it in repair. Here is a constant drain on your time to keep up your place. This doesn't pay you a penny in profit. It is unwise. It is just waste-not money-making

But concrete fixtures are quite different. They work for you in just the other direction. You can take the same \$100 wood improvement and plan it for concrete, and the concrete building is still as solid and strong in 20 years as it is to-day.

# This Big Book Saves \$8 on **Every \$10 Investment**

To use concrete instead of wood you only pay out about \$20 for Portland Cement, instead of \$100 cash for a \$100 wooden building. You keep \$80.00 in your bank. This is worth while keeping. It is worth while knowing how to keep it. You build your improvement at a cash outlay of \$1.00 to \$1.00 to

and you finish a building, say, that has the same size and capacity as \$100 wooden structure you planned. But this new building won't bu

It is a lot warmer. It is very clean. It is very strong. It has no framework to sag and no underpinning to rot. Once you have built that structure, your work is absolutely done. That building is like a rock-it is a rock, one big, solid piece of rock, smooth and warm and perfect. You haven't a better building on your farm.

### Your Work is Easier and Lighter Every Day. Losses and Repairs Saved You

This concrete building cuts down the work you have to do in it. No repairing is needed at all. The structure is as good as new after 20 years as when built. Its smooth concrete floor is cleaned or swept in half the time. It cannot harbor rats or lice or disease, such as anthrax or hog cholera.

That shows you plainly how concrete can save your daily work, and prevent money loss from fire and cattle disease and vermin.

### What a Dollar Will do. Makes These

A dollar's worth of Rogers Portland Cement (given with every copy of our book) will make one of these things for you :-

- 6 10-foot Posts for 100 feet of fence.
  40 feet of 6x0 inch Drain Tile (frost-proof).
  6 Clothes Poles, 10 feet long (clean, strong).
  1 Partition, 80 square feet (fire-proof, vermil-proof).
  3 Chinney Caps (permanent fire protection).
  1 Hos Trough familiary, clean, surfaces in the control of t

- 3 Cmmey caps (permanent fire protection 1 Hog Trough (aanitary, clean, everlasting). 4 Door Sills (wear-proof and clean). 1 Door Step (permanent, cleanly). 2 Hitching Posts (graceful, unbreakable). 1 Horse Block (your name on block). 12 Hen Nests (clean, vermin-proof).
- 1 Pantry Floor, 40 sq. ft. (clean)

You Can Get Free Regular of Charge Rogers Price Book on Cement \$1.00



# We Now Put Concrete at Yo Command in This Plain, East Helpful Book

This book of ours shows how. shows the way simply, with many tures. It is written for you, Canad farmers, so you can make concrete a build in it without buying a single ex tool. By it, you pay out about one-fi of the value of an improvement actual cash, and then do the work yo self in just the right way for perman service without repairing. You get ! benefit for many, many years to con

## Send for Rogers Book To-d You Can Learn How to U Concrete?

The question is, can we send you We want to start you with book, and ask you to send \$1.00 for it. \$1.00 is not kept by us, but used to buy Rogers Portland Cement, which is given free through one of our local dealers. can make several practical, useful things the dollar's worth of free Portland Cem See the list we give you at the left.

Some of these things are worth as high \$5.00. That shows you how much n Portland Cement can save you, even if it not have a single benefit. But it has bene that come back to you every day you runy farm. You prevent fire loss. You save w You get more money into your bank accor

Send us \$1 and we send you the box 3 an order on one of our dealers for a dollar's worth of Rogers Portland Ceme you get two big full dollars in value for

This Big Rogers Cement Book opens way to making more money in farm Send \$1.00 for your copy to-day.

ALFRED ROGERS Limited 28 WEST KING ST.