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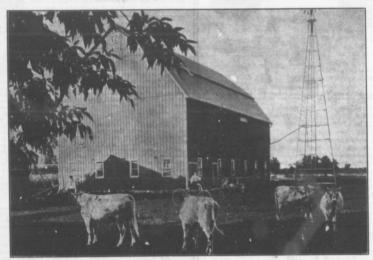
VOL. XXXI.

NUMBER 3

RURALHOME

PETERBORO, ONT.

JANUARY 18



LOTS OF LICHT AND GOOD VENTILATION CAVE THESE BUILDINGS A HIGH STANDING

Were all the dairy stables in Canada as well lighted and ventilated as the one here illustrated bevine tubercules is would not work the fearful have in our dairy herds that it now does. Disease germs do not thrive where fresh air and sunlight abound. That is why so much importance is attached to lighting and ventilation of stables in the scale of points used in judging the farms in the Prize Farms Competitions conducted by Farm and Dairy. The farm of Mr. Angus Grant, storment Oo., Ont., whose buildings may here be seen, secured third place in the competition conducted three years ago. The buildings on his farm scored the highest of any in the district, the ventilating system and lots of windows being strong points in its favor.

DEVOTED TO

ETTER FARMING AND

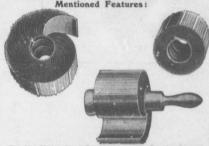
ANADIAN COUNTRY LIFE

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Note the Principal Advantages of the Above-Mentioned Features:



The Link-Blades closed for skimming, open for cleaning and held by standard for convenience in cleaning.

1. Increased capacity of from 30 to 50 per cent. over the most efficient of previous devices, combined with very clean skimming under a wide range of conditions as to milk, tem-

2. Great convenience in cleaning and handling, because the blades do not come apart, and do not have to be reassembled in any particular order.

3. The device being expansible, and fitting the bowl snugly, it can never become loose, or shift in the bowl, and throw the same out of balance.

4. The pressure being transmitted through a series of brass rivets, there is no strain on the blades themselves, and there is no rusting formed by the points of contact of the

s. The device, being much more efficient, is a great deal lighter and smaller in order to do the same amount of work, making it still easier to handle, and requires less power to run than other devices of same capacity.

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Recomber, our great Poulty Annual is not February ist. It will about of February ist. It will about of February ist. It will about of February ist. It will not not farm and Buist reader, one out in the number and plan to use special space in all eight of Farm and Special Magnetine for 182 owns close for February ist. Page, \$47.04: Half Page, \$23.52; ter Page, \$41.04: Half Page, \$23.52; ter Page, \$41.04: Raif Page, \$40.04: Raif Pa

Adv. Dept., FARM AND DAIRY, Peterboro, Ont.



CONSULTATION ON THE RUN-DOWN CONDITION OF FARMER GRAY

Dr. Combine,—"After considering your case very carefully, Mr. Gray, we desire to say that we are very sorry to find that you are in such a rundown condition. Our verdict is that it is all your own fault. We are convinced that if you will only sow better seed, breed better stock, underdrain your low land and continue to take medicine out of the bottles we have here, you will soon be as fat and prosperous as we are."

Experimental Union Meets

Great indeed has been the service rendered to Ontario agriculture by the work of the Ontario Agricultural the work of the Ontario Agricultural and Experimental Union, the 33rd annual meeting of which was held in Guelph last week. During the 33 years of its existence the Union has been a connecting link between the Ontario Agricultural College and the farmers of the province. Many of or the province. Many of our best varieties of grains have first been made known through experiments conducted by the Experimental

An idea of the importance of the work of the Union was given in the report presented by the secretary, Prof. C. A. Zavitz. In 1886 there were 12 experimenters throughout the province. In 1911, 4,490 farmers province. In 1911, 4,400 farmers took part in conducting the experiments; 40 series of experiments were ments; 40 series of experiments were conducted and as many as 1,045 inconducted and as many as 1,040 in-dividual farmers took part in one ex-periment. In the last 26 years the number of experiments conducted has been 63 909 In these experiments been 63,302. In these experiments all of the most important farm crops grown in Ontario have been tested. the best varieties determined, and lately the Union has added to its line of activities experimental work with bees, forestry and school garden work.

A WONDERFUL NEW OAT A WONDERFUL NEW OAT
The most important result of the
experiments conducted during the
past year will be the introduction to
Ondario fazmers of a new variety of
oat, O.A.C. No. 72. This new variety,
a strain of the Siberian, was developed at the College from a single plant
selected as the best amongst 10,000
plants. In compounding the results
of the experimental work with this
oat. Prof. Zwitz found that it yield. of the experimental work with this oat, Prof. Zavits found that it yield-ed 1.1 bushels per acre more than the Siberian, 1.6 bushels more than the Regenerated Abundance and five bushels more than the Lincoln. It is intermediate between the Siberian and the other two varieties in straw and the other two varieties in straw production, but the straw is etifier and freer from rust than the other varieties. O.A.C. No. 72 was the most popular oat with the experi-menters in 1911. Prof. Zavitis' as-mous No. 21 barley has always yield-ed more pounds of grain per acre than oats, but this year O.A.C. No. 72 exceeded it.

Great interest has again been exhibited by Union experimenters in alfalfa. The Variagated and Grimm alfalfa have both proven themselves more hardy than the common alfalfa and better adapted to Ontario condi-

Reports from over the province in dicate that the acreage planted to potatoes is increasing very slowly.

Professor Zavitz attributed the small velopment in potato growing to the lack of uniformity in varieties and searcity of labor. In most Ontario sections it is impossible to secure a car load of potatoes that are uniform in variety, and for this reason Eastern potatoes are preferred. The Davies' Warrior, a new variety of po

Davies to Una mew variety of pobarries to Una membership year,
has arrpassed in pointered this year,
has arrpassed in pointered the year,
has arrpassed in pointered the College,
and also throughout the province,
Prof. Zavitz. in reporting on the
experiments wish fertilizers, explained that results of fertilizer experiments conducted at the College would
be very narrow in their application,
each farmer having different soil conditions. Through the work of the
Union, however, the fertilizer requirements of soils in all parts of the proments of soils in all parts of the pro-vince are tested and are of value both to the farmer himself and to his both to the farmer himself and to his neighbors. In connection with fer-tilizer experiments, Prof. Harcourt gave a synopsis of experiments that will be conducted with peach and apple trees and garden crops. As the work has just commenced, however, Prof. Harcourt had no results to report this year

BEST SIZE OF PARM DEST SIZE OF PAINS
Of poculiar interest were the two
lectures given by Prof. G. F. Warren,
of Cornell University. In the past
five years, Prof. Warren has conducted an investigation into the business
of every farm in two countries in New
York State. An inventory was taken
at each farm of the value of stock,
machinery, etc. and the receiver. at each farm of the value of stock, machinery, sto, and the receipts and expenditures for one year. Allowing five per cent for interest on capital invested, the labor income of the proprietor was determined on each of these farms. As a result of his investigations, Prof. Warren decided that farmers with less than \$5.50 to the capital are poorer off than if 'Tuk' worked as hired men and invested their money elsewhere.

their money elsewhere.

The result of the investigation was to Prof. Warren conclusive proof that the larger the farm the greater the labor income up to a maximum of 600 acres. He found that where the farm consisted of 30 acres c less the farm-er received on the average only \$168 er received on the average only \$168 for his year's work; 100 acres to 150 acres, \$436; and over 200 acres (averaging 261), \$946. "I doubt," said Prof. Warren, "if it is worth while trying to farm with less than 100 acres or \$5,000 canital. We can farm "Comfinued on agas \$3." (Continued on page 8)

Issued Each W

Vol. XXX

Fresh Air of

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Prof. Geo.

wider range ently health longer perio stock. The to believe th and thrifty point of vie less in conne

It is time ters from a member tha that the see developed b symptoms, a diseases tha ditions, it i edy when th

L Tuberculor of diseases j believes that cause there fore regard is liable to Many well no clinical a healthy cow to the herd afford, there tain sanitar we never kn work its was aim to mai able to the

Effective sites of a sa tion which o of windows tory, for the is scarcely sequently th stable has system of v it is necessa during both

*An address

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

Vol. XXXI.

FOR WEEK ENDING JANUARY, 18, 1912.

No. 3

Only \$1.00

IMPOGRANT CONSIDERATIONS ON THE SANITARY STABLING OF CATTLE*

Professor G. E. Day, O.A.C., Guelph

Fresh Air of More Importance than Warmin in the Bairy Stable. Sunlight and Outdoor Exercise Important Factors in Preserving the Health of Animals.

S OUND health is one of the most important attributes of either man or beast. There is probably not a man present who would

Prof. Geo. E. Day

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purchase an animal for any purpose if he had reason to doubt the soundness of its health. Unfortunately, however, there are too many of us who are not willing to admit that it is necessary to observe the laws of health in the handling of cattle, for the reason that cattle are able to

wider range of conditions, and to keep apparently healthy under favorable conditions for a longer period of time than most other kinds of stock. The average man, therefore, is very apt to believe that an animal which appears healthy and thrifty is necessarily sound, and it is this point of view which makes so many people careless in connection with the health of their cattle.

It is time, however, that we look at these matters from a different standpoint. We must remember that all things are not what they seem, 'but the seeds of disease may be sown and largely developed before the animal shows any clinical symptoms, and that, in the case of slow moving diseases that are fostered under unsanitary conditions, it is usually too late to apply any remedy when the symptoms become apparent.

LIKE A THIEF IN THE NIGHT

Tuberculosis is a striking example of the class of diseases just mentioned. The man who fondly believes that no tuberculosis exists in his herd because there are no apparent symptoms, and therefore regards sanitary precautions unnecessary, is liable to receive a rude awakening some day. Many well advanced cases of tuberculosis show no clinical symptoms, and what appears to be a healthy cow may be a constant source of danger to the herd in which she is kept. We can never afford, therefore, to be lax in our efforts to maintain sanitary surroundings for our cattle, because we never know how or when disease may secretly work its way into our herd, and the wise man will aim to maintair, conditions which are unfavorable to the development of disease germs.

Effective veutilation is one of the first requisition which depends upon the opening and closing of windows can scarcely be regarded as satisfactory, for the reason that there are times when it is scarcely safe to have windows open, and consequently there are sure to be times when the stable has practically no ventilation. A good system of ventilation works constantly, because it is necessary to have the air frequently renewed during both day and night. No stable can be re-

garded as fu'ly equipped without some reasonably thorough and systematic method of ventilation.

There are two methods of ventilation which are very generally approved. One of these admits the fresh air at or near the ceiling, and has the outlets so arranged that they draw the foul air from near the floor. It is customary in this system to have openings in the outlet flues near the ceiling which may be opened if the stable becomes too warm. The main difficulty we have experi-

The Best Varieties—Experimental Union

ments varieties all varieties and consultation (and consultation) with the consultation (both) with the	Experi-		Compar-	Yield per Acre		
O.A.C. No. 72. 100 1.55 20.61 135 136.15 136	menta	Varieties	Value Value	Straw (tons)		Grain (lbs.)
Siberian Si 1.33 20.73 13.8	Oats (8)	tests)-				V. B
Regenerated Abundance 56 1.13 36.30 12	O.A.	C. No. 72	100	1.25	39.81	136
Lincoln 14 13 34,62 11	Block	rian	dames 05		38.73	131
Six-cowed Barley (3) tests) Six-cowed Barley (3) tests) Six-cowed Barley (3) tests) Six-cowed Barley (4) tests Six-cowed B						118
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	Emn	ner	80		-	133
GBy Mayle 100 1.88 23.37 189 180	O.A.	C. No. 21		1.06	27.67	132
Black Hull-leve 52 1.53 21.21 12 12 12 12 12 12	Gny.	Barley (9 to	100	1 00	91 17	140
spring Wheat (4 tests)— Wild Goose Wild Wild Goose Wild Wild Goose Wild Wild Goose Wild Wild Wild Wild Goose Wild Wild Wild Wild Goose Wild Wild Wild Wild Wild Wild Wild Wild	Blac	k Hull-loop	R2	1.53	21 91	127
Wild Goose 100 1.19 19.40 11 Integrals and Integrals and Integral of Integral	Spring	Wheat (14 tes	ta)—	2.00		
Emmer & Spelt (3 tests) -	Wild	Goose				117
Common Emmer 100 62 34,34 13	Hun	garian	79	1.07	16.73	100
Alstroum Spelt	Com	mon Emmor	100	40	24 24	125
Buckwheat (1 Seeta)	Alati	roum Snelt	53			84
Silver Hull 95 1.71 10.96 8 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 10.96 1.71 1.71 10.96 1.71 10.96 1.71 1.71 10.96 1.71 1.7	Buckwh	eat (2 tests)-				
Winter Wheat (24 tosts)	Rye	***********	100	1.36		73
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Imperial Amber 100 1.00 13.54 12.7 12.56 13.56	Winter	Wheat (24 ter	sta)—	1.01	92.00	141
Tasmania Red 91 1.20 25.00 25.	Imn	orial Amber	100	1.20		140
Orimean Red 97 95 19.18 11	Tasn	nania Red	91	1.20	23.00	13
Winter Rye (I tests)— Mammoth White 100 2.71 24.85 15 Common White 67 3.00 24.46 17 Common White 67 3.00 24.46 17 O.A.C. No. 61 100 1.44 17.71 10 O.A.C. No. 61 100 1.44 17.71 10 Common 67 1.05 15.55 79 Low Common 67 1.05 17.49 10 Rearly Britain 52 1.05 17.44 10 Rearly Britain 52 1.05 17.44 10 Rearly Britain 52 1.05 17.44 10 New Cannadian Beauty 1.00 1.35 17.49 10 Early Britain 52 1.05 17.49 10 New Prize Winner 92 1.07 12.55 10 White Wonder 100 1.10 17.71 10 Orn for Grain 16 tests)— Whole Copp Early California Filtan 1.05 1.05 12.00	No.	5 Red	65	1.20		
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	O.A.	C. No. 61	100		17.91	100
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	Earl	y California	Flint.100			
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enced with this system of ventilation is to find some method of distributing the fresh air when it comes in near the ceiling without causing cold draughts upon some of the animals. It is also well known that the foul air, while it is warm, ascends to the ceiling, and consequently having outlets near the floor does not admit of removing the foul air immediately.

. The other well known system removes the foul air through flues opening at the ceiling and running up through the roof of the barn, and brings in the fresh air through openings near the floor. The inlets are guarded both outside and inside, so as to prevent direct draughts upon the animals, and the outlets, opening as they do at the ceiling, are in a position to remove the foul air

immediately it ascends to the ceiling. The outlets thus are better to run perfectly straight from the ceiling out through the roof, and the top of the outlet should be higher than the peak of the roof.

THE SYSTEM PREFERRED

Our experience leads us to prefer this system of ventilation to the one first mentioned, though it causes a lower temperature in the stable than the one wherein the foul air is drawn from near the floor. It is simple, inexpensive and effective, and when properly arranged does not permit of any draughts, which is an important consideration.

Many other systems of ventilation might be discussed, but it would scarcely be profitable to do so at this time, and the two systems mentioned are undoubtedly the two best systems known.

It is impossible to have a really thorough sys tem of ventilation without materially lowering the temperature of the stable, and it is this fact which undoubtedly leads many people to neglect thorough ventilation, for the reason that they wish to maintain a fairly high temperature. Dairymen especially seem to be convinced that a high temperature in the stable is necessary to the highest milk production. There may be something in this contention, but, after all, is it worth while to run the risk of ruining the health of our whole herd in order to break a few milk records? From some incomplete experiments, indications are that a high stable temperature for dairy cows is not so necessary as many people suppose.

VERY WARM DAIRY STABLES NOT NECESSARY

If the air is reasonably dry and pure and the cow is accustomed to the conditions, results of our work would indicate that rather low temperatures apparently do not materially affect the milk yield. Of course if a cow were taken from a warm stable into a cold one she would suffer, but if she is placed in a well ventilated stable in the fall and gradually becomes accustomed to a lower temperature as the weather becomes colder, she does not appear to suffer much inconvenience In fact, it will generally be found that the attendants are the ones who object to the low temperature, rather than the cow. Good, clean air, so long as it is not accompanied by draughts, is of far greater importance to any cow than a high stable temperature.

There is an advantage in having a fairly cool stable, in that it enables the cover to enjoy a short time out of doors each day without suffering any inconvenience; whereas, if they are kept in a very warm stable it is almost dangerous to turn them out at all, and the chances are that their milk flow will be affected if they are turned out, even for a short time, on a cold day. Outdoor exercise, though it may be for only a few minutes in very extreme weather, is an important means of maintaining the health and vigeor of cattle.

OUTDOOR EXERCISE PREVENTS TUBERCULOSIS

Those cattle which have regular outdoor exercise are much less liable to contract tulorculosis than those which are constantly stabled throughout the winter. Constant confinement in a

(Concluded on page 4)

THE CITY LAND OWNER---HOW HE TAXES US FARMERS

ARTICLE VII.

HE main reason why we farmers do not receive a larger portion of the price the city consumer pays for our products is the excessive value of city land. There are a number of other reasons but excribitant land values is the chief.

During the past five years land values in the city of Toronto and vicinity alone have increased over \$100,000,000. A large part of that increase has been taken, or will be before long, out of the pockets of the laboring people and middle classes of Toronto. Most of it, however, has been paid, or will be in time, by us farmers. In other words we are paying the greater part of \$20,000,000 a year on the average into the pockets of the land speculators and land owners of Toronto and vicinity. The astonishing feature of this condition is that we do not realize it. But that is not all: We are pouring other millions, in a similar way, into the laps of the land holders in London, Hamilton, Ottawa and very other growing industrial center in the province. Exactly similar conditions exist in each of the other provinces, particularly in the west.

When we blame the middleman, as we so often do, for taking too large a share of the price the consumer pays him for our products we do not realize that he, as well as ourselves, is being squeezed by the land monopolist. It is all very simple when once we see it. The wonder is that we have not seen it long ago.

The city of Toronto occupies 29% square miles of land. That land alone — buildings not included—is assessed at \$147,893,362, or at the rate of \$7,893 an acre. But the land is not assessed at more than half its actual value. Not infrequently land in Toronto changes hands at prices that exceed its assessment four and five times and more. Thus it is safe to assume that the actual value of the land is at least double its assessment or over \$15,000 an acre. But that is the average value of the land including that away out on the outskirts. In the business centers it is worth vastly more. A few of the choicest lots in Toronto are valued at the rate of \$2,000,000 to \$6,000,000 an acre. Our great industrial concerns have to conduct their business on this high priced land. It costs them thousands of dollars to do so, and as far as they are able, they make us farmers pay the piper.

AN ILLUSTRATION OF HOW WE ARE TAXED.

Let us illustrate: Take the case of a commission merchant. We will assume that he is handling eggs on a wholesale basis, in a large way. Because of this his warehouses and cold storage plant have to be located in the commercial center, where they will be convenient to the railways, express offices and other business conveniences. We will assume that his offices and buildings occupy an acre of land valued at \$100,000. Because his landlord expects to receive at least six per cent. clear off the value of the land and all taxes, excepting possibly water rates, it means that this merchant has to pay his landlord approximately \$8,000 a year in rent and taxes. (Note.-Were he paying on a farm land value basis, his rent and taxes would be \$4 to \$8 a year.) That, however is not all. He has, we will say, to pay \$75,000 a year in salaries and wages to his managers, book keepers, buyers, salesmen, office staff, warehouse men, drivers and others. These men have to They have to pay rent for their houses that are based on city values. A warehouse man or driver receiving \$15 a week has to pay at least \$15 a month for the rent of his house. This is practically one-quarter of all he earns. (Under such conditions do you wonder that the laboring men in our cities find it hard to make ends meet or that when, through sickness or other causes they are unable to pay their rents, they are forced into the slums?) On men drawing larger salaries, say \$1,500 a year, the burden of rent will not fall quite so heavily. They should be able to secure homes at a rental of \$25 a month or \$300 a year. Thus in their case the rental tax represents only one-fifth of all they earn. Just think, however, what that means! It means that there are thousands upon thousands of men-most of them with families-in our industrial centers who have to pay each week or each month, one-quarter to one-fifth of all they earn into the pockets of the land holder who-if he owns enough such land-simply has to draw his rents, or have his agents do it for him, while he lives in luxury or travels in Europe upon money that represents the hard-won earnings

WHERE WE FARMERS ARE HIT.

But! do you ask, what has that got to do with us farmers? A great deal. Because these men have to pay such high rentals they have to get wages in proportion. In the country districts they could live in even better houses for \$4 to \$12 a month. Thus one-half to two-thirds of what these men pay out in rents goes to pay interest on our excessive city land values. This represents from 10 to 15 per cent. off all they earn. Thus 10 to 15 per cent. of the \$75,000 a year the merchant we are talking about, pays out in wages to his employees, is immediately paid out by them in turn to their landlords. This represents another \$7,500 to \$10,000 a year, or approximately \$15,000 in all that this one merchant has to pay each year directly and indirectly to the city land monopolists. As far as he can, however, he strives to escape that tax by adding a part of the cost to each dozen of eggs that he sells. This is where it hits us. It means that we receive just that much less for our eggs.

But again this is not all. The wholesale merchant we are speaking about, sells his eggs to the restall dealers, that is the grocers and butchers.. They in turn have to pay thousands of dollars a year in excessive store and house rents and in unduly high wages to their employees. Thus again another tax is placed on our eggs as three men sell them, and again we are deprived of that much more of the selling value of our eggs.

THIS TAX IS ON EVERYTHING.

So far we have talked only about eggs. The same tax is placed in the same indirect way on not only everything else that we produce, including our cheese and butter, oats and hay, pigs and steers, apples and poultry, that are sold in our great centers of population, but it is placed on everything that we buy that is manufactured there. This tax to the land monopolist is concealed in the prices we pay for our boots and citching, our furniture and machinery, our reofing material and buggles, our groceries and provisions. We cannot escape it. It sucks a shars of our earnings out of practically everything we produce or consume. Therefore when times are prosperous and we hear that land values in our cities have been increased another twenty, fifty, one hundred million dollars, as they do every few years, we may take it as fair warning that the land owners and land speculators in our towns and cities are increasing the cost to others of manufacturing the goods we buy and of selling the products we produce in order that thereby they may be enabled to squeeze a faw million dollars more out of our pockets, and out of those of the laboring men, for their benefit, we may

know also that a few more wealthy people, possibly millionaires or multi-millionaires, are being created at our expense.

There is a simple remedy. We must agitate to have land taxed according to its value. Then the money that now pours into the pockets of these city land holders would be returned to the people of the country at large through the taxes such land would pay. One agre of this city land would then often pay as much in taxes as many thousands of acres of farm land. In this way the wealth that the community at large creates, as represented by city land values, would flow back to the people who create it, and not go, as much of it now does, to enrich the already rich. When we have accomplished this we will have gone far to have stopped the depopulation of our rural districts and to make farming more profitable.

The Sanitary Stabling of Cattle

(Continued from page 3)

warm, close stable is extremely enervating and tends to lower the vitality of the animal to such an extent that it cannot throw off disease germs so successfully as one which is more rugged. Keepinz in cool, dry stables, with daily outdoor exercise, is one of the best preventatives of that dread disease, tuberculosis.

Light is another important factor towards maintaining health. Dark stables favor the development of disease germs, whereas light (especially sunlight) is more or less a disinfectant. Just why it is that so many people are afraid to put large windows in their stables is difficult to understand, unless the small windows are used in order to save expense. A little extra expense in windows, however, is money well invested, and if a farmer once had pleuty of large windows put in his stable, I f. I quite sure that he would not be willing to go back to the dark stable under any circumstances.

TOO WARM STABLE INJURIOUS TO CALVES

In fact, an animal that is gaining rapidly in flesh should not be kept in a very warm stable, for the reason that it will suffer from heat. A few weeks ago I visited the farm of a very successful breder and feeder of cattle, and I also found that he had a number of young cattle in one end of his sheep pen and that his experience was similar to our own. In fact, a person has only to try the method I have suggested in order to be convined that it is better to give young cattle a cold building where the air is dry and fresh than to keep them in a warmer stable.

There is, of course, such a thing as going to extremes, and we have nothing to say in defense of the man who turns his cattle out into the barnvard and allows them to remain there all day in all kinds of weather. This is not the method I have been commending, but what I would especially urge upon breeders is to give animals protection from the weather, but along with that protection give them plenty of fresh air.

Dry cold does not injure cattle, but damp, foul air will sap the vitality of the most rugged animal. If we would bear these two facts in mind and act accordingly. I believe that we would hear less about tuberculosis in the herds of this country. To maintain sanitary conditions in our tables requires some effort and some expenditure of money, but there are few things which are worth having which can be obtained for nothing.

By using good, bright tin buckets, in spouts, and using nothing but tin and galvanized utensils in the bush, and by keeping everything perfectly clean and in good condition, there is nothing to prevent one from making a first class maple syrup and sugar, which will bring the highest market price.—F. H. Misener, Brome Co., Que.

Win

J. Earle
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J. Earle N milking cow try to have in the year is to have or first of Octo July. In fo that where returns of one year w least one-t profit as with spring Our ing. then dry, I work through months of August. T a'l hands a spend more earing for vesting the winter feed

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that calves during the spring born grass in the little differe fall calves.

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But we have seen as a seed more property find that on while all the once investion the other must be some Testing h

Winter vs. Summer Dairying

J. Earle Ness, Chateauguay Co., Que.

We very much prefer winter dairying to summer dairving, and for various reasons, of which not the least important is the solving of the hired

help problem. Through winter dairying we are able to give steady employment at good wages, enabling us in this way to keep good men always on hand; in fact, we have never experienced any trouble in securing good help, while those of our neighbors who do not practice winter dairying are quite often unable to secure help when needed.

In speaking of winter dairying we do not mean milking cows for the winter months only. We try to have our cows milking for about 10 months in the year as nearly as possible. Our practice is to have our cows freshen in Scotember and the first of October and dry them about the first of July. In following this practice we have found

that where city milk shipping is practiced, the

returns of a cow for one year will make at least one-third more profit as compared with spring freshen-Our cows are ing. then dry, making less work through the busy months of July and August This allows a'l hands a freedom to spend more time on earing for and harvesting the crops for winter feeding.

We have found that even with the supplying of green feed and under the best possible care it is impossible to make a cow do good work in July and August, while a good cow freshening in September will milk steadily for seven or eight

months, then when put on grass in May she will freshen up again and do almost as well as a spring freshening cow for six weeks or two months.

We have also found in the raising of our calves that calves born in the fall are getting a start during the winter, develop much better than spring born calves. They are ready to turn to grass in the spring, and when fall comes there is little difference to be seen between the spring and fall calves.

Note.-Earle is a son of R. R. Ness, one of Canada's greatest Ayr hire breeders; a regular "chip off the old block."-Editor.

From 130 Lbs. to 325 Lbs. of Butter

R. M. Halliday, Comox Dist., B.C. Most writers on the subject of cow testing tell

how testing the cows tends to show the farmer which is the profitable cow and which is the "boarder." Of course this is the main idea in cow testing-to help the dairyman to know that he is raising calves from only the best cows.

But we have found that setting down the weights of milk morning and night, enables us to feed more profitably as well. For instance, if we find that one cow is shrinking in her flow of milk, while all the others are doing as usual, we can at once investigate, and try to remedy the cause. On the other hand, if all are shrinking, there must be something wrong with the feeding.

Testing has shown us that anything that alarms

a cow causes a shrinkage in milk; that a warm summer rain increases the flow; that it is not possible to tell the most profitable cows by outward appearance.

But one may ask, "Has testing actually increased your production?" Our answer is: Eight years ago our average butter production was 130 lbs. of butter a cow per year. Last year our cows averaged 325 lbs. Results speak for them-

How I Feed My Land

T. L. Parker, Huron Co., Ont.

The maintainance of soil fertility is my first care as a farmer. I see much in Farm and Dairy about feeding cows. That is all very well. We cannot give our bossies too much attention. But there is a more important problem still. We must feed our land also.

The waste of fertility that is going on every year on even what we consider well managed farms is something tremendous. We hear much of the crops that are reaped by the settlers of New Ontario from the new land of that country. It is not so many years since we were reaping equally good crops from the new lands of old



Work is Play When Neighbors Meet Together

Work is Play When reightors Meet rogether
This scene, not now a common one in rural Ontario, depicts one of the ways
in which neighbors may come together and enjoy each other's society as well as
work on the cooperative plan. In the illustration Mr. R. Barrens may be seen
adjusting the hog to its prover position, Mr. Jass. Barrens holds the knife and
Mr. Barrens as applying the water. Mr. Jan. Connel is amusing himself in
lung testing. All are readers of Farm and Dairy and live in Peterboro Co. Out.

—Photo by Jas. White.

Ontario. Our carelessness in conserving soil fertility accounts to a large extent for our decreased yields in rural Ontario.

How are we to feed the land? On our farm we endeavor to keep up the fertility of our farm by growing the proper kind of crops, practicing a short rotation, feeding all the feed produced on the farm to dairy cattle, handling the manure in the best way we know how, and by good cultivation of the soil.

FREE NITROGEN FROM CLOVERS

Of course clovers take a prominent part in our rotation. We aim to grow clover once in four years at least on every field on the farm, hence we get our nitrogen for nothing. All the manure is applied to the hoed crops. We believe that a ton of manure applied to the hoed crops will do as much as a ton and a half or two tons as a top dressing on meadows. We also find that a light dressing of manure once in four years will give better results than dressing twice as heavy every eight years.

An advantage that we see in dairy farming is that dairy cows will return a profit on bought feeds-bran, oil meal, cotton seed, etc. These feeds contain much of the fertilizing ingredients. We get two profits on these feeds, first from the cows and then from the land.

Feeding the land is of first importance, for the land feeds us.

Important Points in Wintering Ewes

Abram Rudell, Waterloo Co., unt.

The winter season, particularly the latter part, is the most critical time in the sheep's life. The ewes fare very well while there is plenty of grass for them, even in cold or wet weather. When the snow comes other means must be adopted for their

Although they are not hard to provide for when one knows how, great care must be taken in their management in order that we may come out in the spring with a healthy flock, a large crop of young lambs and retain all or nearly all

The ewes are very liable to injury while correing the young. This to my mind is the one thing that robs many farmers of success with their flocks It does not pay to keep a ewe over winter and lose her with her lambs in the spring. Many farmers lose altogether too large a percentage, more from injury than any other cause

CROWDING MAY MEAN INJURY

It is not wise to have a flock crowding to obtain feed, salt, water or anything else. Where they are permitted to crush together, even three or four ewes when thirsty will make such desperate efforts to get to a pail of water that they will injure each other. A good idea is to have water so plentiful that they can go to it one at a time. The feeding racks should be longer than required, so all may have room and to spare. If a small rupture takes place anywhere about the foetus, inflammation sets in, the lamb dies, and before the proper time of delivery comes we have a hopeless case on our hands.

We aim to get near to nature's way of handling sheep. I find that in cold weather a good plan is to spread straw, preferably pea straw, in the yard with alfalfa or other clover hav on it, so the sheep can rustle through it as they do on a pasture field. Any kind of straw, if alfalfa or clover hay is thrown on top, is good. In the early part of the winter breeding ewes will do well with four or five pounds of turnips a day per head when they have access to the hay. A liberal supply of salt must always be on hand.

PREPARE FOR LAMBING

A little grain should be added to the ration as lambing time approaches, so that there will be a good flow of milk for the young. There will then be no difficulty in the ewes owning their young. Once a lamb has taken nourishment it will need very little more help if these precautions are taken. The so-called abortions among ewes that we hear so much about, under the management I have recommended will be scarce inbook

Now comes the time to feed more liberally on roots and other good feed until the sheep go to grass. Ewes that have early lambs may have their wool taken off in 10 or 12 days after lambing if they are put in a comfortable place for a week or two after shearing.

ADDITIONAL SUGGESTIONS ON FEEDING

Too many turnips fed to ewes in lamb will have the effect of bringing large, soft lambs that are often affected with goitre-large lumps around the throat. A little oil cake fed to ewes through the winter will help to keep them in better health on account of the soothing effect it has on the digestive organs.

Exercise should be given if possible, as ewes will be inclined to lie about too much. But the exercise should not be too violent. A sudden rush of a dog into the yard or any sudden fright should be avoided up to the lambing season

I keep my sheep in a frame shed open to the south and they seem to be very comfortable. Sheep handled in this manner will not be costly to winter and should bring good profits in return for cost of feed and labor.

Sheep Sorrel is Troublesome

Have moved into a new section, and I find that the meadows are sovered with a small reddisc olored weed called sheep socre! Hay from these meadows is of creding out the grass and greatly very little new. What is the best method reducing the crop. It thrives best on

of eradicating this weed?-A. P., Went-worth Co., Ont.

soils that are deficient in lime. An application of lime to such soils produces a more vigorous growth of cultivated verys and curtails the growth and spread of the sorrel.

As with most other weeds, the only

Get the Plans and Advice of Experts in Improved Barn Construction.

Barn Construction.

About Noxious Weeds

About Noxious Weeds at Interesting and valuable is the report recently got out by the Seed Branch of the Dominton Department of Agriculture, the Propert cevers the work of the Sha Division for a period of aix years of Agriculture, and the Sha Division for a period of aix years of Agriculture, and the Sha Division for a period of aix years of the work that is being done by the Seed Division is given and some of the results that they hope to achieve in the mear future are forceasted. in the near future are forecasted.

Of a special value is that part of the report that deals with the identifi-cation and control of noxious weeds. cation and control of noxious weeds. Illustrations are given of the planta and seeds of all of our worst weeds, which make them easy of identifica-tion. Where special methods can be used in the oradication of any weed these methods are given along with the description of the plants. This report can be had free on application to the Seed Commissioner, Depart-ment of Agriculture, Ottawa.

Free Distribution of Seeds

A distribution will be made during the coming winter and spring of superior sorts of grain and potatoes to Canadian farmers by the Dominion Department of Agriculture. The samples for general distribution will consist of spring wheat (five pounds), white oats (four pounds), barley (five pounds), and field peas (three pounds), and field peas (three of the pounds). The pounds of t out from Ottawa. A distribution of potatoes in three pound samples will be carried on from several of the ex-perimental farms, the Central Farm at Ottawa supplying only the provinces of Ontario and Quebec. A samples will be sent free, by mail.

Applicants should give particulars in regard to the soil on their farms; and should also state what varieties they have already tested, and in what way these have been found unsatisfacway these have been found unsatisfac-tory, so that a promising sort for their conditions may be sent. Only one sample can be sent to each farm. As the supply of seed is limited, farm-ers are advised to apply early to avoid possible disappointment. No applica-tions can be accepted after Feb. 15.

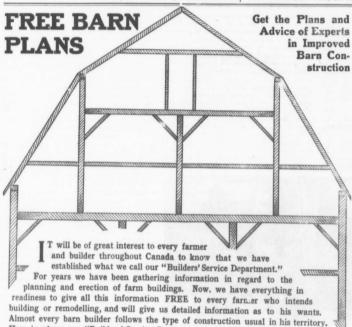
tions can be accepted after Feb. 15.
All applications for grain (and applications from the provinces of Ontario and Quebec for potatoes) should be addressed to the Dominion Cercalist, Central Experimental Farm, Ottawa. Such applications require no postage. Applications, for potatoes, from farmers in any other province should be addressed (postage prepaid) to the Superintendent of the nearest Branch Experimental Farm in that province.

Items of Interest

A meeting of the Canadian National Live Stock Association will be held at Ottawa, February 12 and 13.

The annual meeting of the Cana-dian Jersey Cattle Club will be held in the board room of the Prince George Hotel, Toronto, on Thursday, February 8, at 1.30 p.m.

The annual meeting of the Holstein-Friesian Association of Canada will be held in the Temple Building, Toronto, on February 8, 9.30 a.m.



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men FREE of all cost if you will make known your wants. You wonder why we do all this FREE? It is for this reason: We feel that with this

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we can help the farmer and builder to erect Ideal Farm Buildings. As the farmer builds he will want to build better and safer, so that his stock and grain and implements, etc., are absolutely safe from lightning, wind, rain and fire.

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January 1 Recented

The Fe The Peeds use of our terested as tions, or s All question attention. *****

Regularity

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of the sensit Thoughts o

The prered dairy herd and contents quired only er stabling a food sufficient palatable to the animal.

Perhaps th made by dai supply suffic provide food palatable an in Larns ser sanitation.

Economica word of the be reached t ing and Many good o through unv able surroun The answer

ly and wisel food, both never forget eaten with results than Never feet the cow wil manger and goodly porti the barn.

Succulent nips, silage, pronounced fed shortly a from the sys ing and toodors in the uable foods duce harmf product of t

It matter ing, the pri coarse feed.

Brandon, Man.

The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All questions will receive prompt attention.

Regularity in Sheep Feeding

Regularity in Sheep Feeding A good observer of saceep and lambs has made the remark that sheep are excellent timekeepers. They have no alarm clocks of their own, but seem to keep the sense of time very clearly in their minds, so clearly, in fact, that if you are disposed to be somewhat irregular in your hours of doing your tarn work it would be best for you to invest in an alarm clock for you to invest in an alarm clock for your own use. In such a case you can safely charge the investment which the clock represents up to the which the clock represents up to the

It will pay you back with interest. In other words, there is perhaps no other animal that is more sensitive about being led on time each day than is your tattening lamb or sheep. Noise, confusion—anything, in fact, which annoys and distresses the flock, which almoys and distresses the flock, means the loss of good money-making fat and flesh to you. No one should be allowed to have any part in the handling of the flock who is in the habit of losing his temper or who is rough in manner or speech when working about the flock.

As a matter of fact, so important is this matter of sheep feeding that you cannot so much as show a stranger about the shed where the sheep are being fed without the act costing you in good hard money from the loss of flesh which the distraction of the sensitive animal will produce.

"Shepherd."

Thoughts on Feeding Dairy Cows

The prerequisites of success with a dairy herd are cleanliness, comfort and contentment. These can be acand contenent. These can be ac-quired only by gentle handling, prop-er stabling and a punctual supply of food sufficiently rich, succulent and palatable to fully supply the wants of the animal.

Perhaps the most frequent mistakes made by dairymen are the failure to supply sufficient food, or failure to provide food sufficiently succulent and palatable and too frequently stabling in barns seriously lacking in proper

Sanitation.

Economical production is the watchword of the dairyman. This can only be reached through liberality of feeding and wholesome environment. Many good cows have had their pros-pects blasted by scanty feed, or through unwholesome and uncomfortable surroundings.

The answer to the question "how to feed" is to feed liberally, regulariy and wisely. Feed a well balanced food, both succulent and palatable, never forgetting the fact that a meal eaten with a relish will give better.

results than one consumed reluctanty even if of equal nutritive value.
Never feed more at one time than
the cow will eat up clean. Let the
manger and the rack be empty a
goodly portion of the time when the
ow is confined for long periods in the barn.

Succulent food, such as kale, turnips, silage, or in fact any foods with pronounced odors, should always be fed shortly after milking, so as to permit the volatile oils to be eliminated from the system before the next milking and thus obviate undesirable odors in the milk. Even feeding valuable foods injudiciously may produce harmful results to the dairy product of the cow.

It matters not where one is dairying, the primary factor should be to grow all the protein possible in the coarse feed. Protein in cow feed is

It is the standard of value. Where alfalfa can be economically produced this should constitute the coarse feed.

Clover is good, and no mistake will be made if this constitutes the principal hay of the dairy herd. Its nutritive value and palatability will be increased if alsike and red clover are mixed.

mixed.

A ration of good protein-bearing hay such as alfalfa and clover, with 40 pounds of silage and six pounds of ground grain or bran and wheat shorts will give excellent results.

The dairyman should produce as much as possible of the feed that the dairy herd consumes. The ordinary cereals grown on the farm, such as sheat, barley and oats; make an excellent combination with afalfa, wetch cellent combination with aifalfa, vetch and clover hay. If, however, these cereals are worth considerably more per ton in the market than an equal

per ton in the market than an equal mixture by weight of bran and wheat shorts, then it would be good business to sell the grain and purchase the mill feeds.

The modern cow has been designated the wet nurse of prosperity, which indeed ahe is. Stabbe her well; keep ler clean; feed her wholesome pile up a light kindly and she will be up to the proposed of the proper owner than will any other animal on the farm.

Dairy Thoughts

The wise breeder of cows always keeps his eye on the sire. The wise breeder of bulls traces back for a

breeder of bulls traces back for a long line of high-producing mothers. A cow may not know anything about the theory of dairying, but most cows have got the practice down



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Steel Trough & Machine Co., Tweed, Ont.

ARE YOU READY FOR

The snow is here again, and present conditions indicate a great depth of it this winter. This will make the cleaning of your stables a very heavy job, as it is no light work to shove a wheelbarraw full of manure through snow and mud, or up a slippery plank. You do not have to do this, however, as you can

MAKE: YOUR STABLE WORK EASY

by using a BT LITTER CARRIER. Running as it does on a level overland track, it is very easy for you to place the manure any distance from the barn, no matter what condition the yard may be in. If desired, a swing pole, anywhere up to 40 feet in length, can be used. This is made to swing out over the yard, and distributes the manure evenly.



INSTALL A LITTER CARRIER YOURSELF

work will install a BT LITTER CARRIER in an ordinary sized work will install a off Litter Carrier Carrier in an ordinary size expert is necessary. We send everything complete, ready to nail managers can be placed anywhere along the track, so that it is is messary to use scanding for attaching them to. Wherever you tribe a joist or sill, a hanger can be put on, and the track is a state of the control of the track is a control of the carrier of the track, are used in attaching the hangers, so that they are very easy to put in place. 'The track, owing to its shape, is easily curred to suit any corner. Now is the time of the year to put in an outh, and when it will be of most use. Write us to-day,

BEATTY BROS., Fergus, Ont.

and distributes the manure evenly.

Cleaning the stables with a barrow is
such heavy work, especially in winter,
that the manure generally does not get
far away from the stable door. The
water is backed up, and the result is
that the yard is almost impassable. As
well, the fumes from the manure are
constantly pouring into the stable,
injuring the framework of the barra
and the implements stored in or near it.
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Reseaseseseseses HORTICULTURE

Sunscald on Apple Trees

Sunscald on Apple Trees

I have 200 apple trees, half of them set
out last spring and the other half the
year previous. I now notice a gumny
juice oosing out of the south side of
some of them which seems to seald the
some of them which seems to seald the
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I judge that sun-scald is more or ess common in your section, as ave looked you up on the map a find that your section is not dissimilar to certain sections in Ontario where sun-scald is very common. You not state whether the gummy exuc tion was noticed on the trees planted last spring or on those planted previous season, or on both. Sunscald usually occurs in late winter, and if you find this trouble on trees planted last spring, I should say that some other cause than sun-scald is resome other cause than sun-scald is responsible. If you find it, however, only on trees planted a year ago last spring, it might and probably would be the effect of sun-scald. It is more likely that this trouble which you describe in the state of the st scribe is the effect of sun-scald rather than the cause of the same.

The wood veneers have proven very The wood veneers have proven very satisfactory, but for one objection. Ice storms such as we have in this sec-tion very often fill the veneer up with ice, and owing to the protection of the veneer this ice remains in close contact with the tree often for a very considerable length of time. If you can so place wood veneers that there can so place wood veneers that there is no possibility of ice entering the top and becoming permanently locked about the trunk of the tree, you will probably find the method satisfactory.

I would suggest, however, that you I would suggest, however, that you simply use ordinary newspaper or light colored building paper. Dark colored or black paper would be dan-gerous on account of aborting the heat and thereby increasing the trouble. We find that two or three thick resses of light colored building paper are entirely satisfactory as well being cheap protection from sunsould scald. They are also useful for pro-tection from mice and rabbits, and as you state that you have mulched the ground around the trees with manure is just possible that you may eventit is just possible that you may eventually require some protection from mice. There would be no objection, so far as I can see, to the placing of manure around the bottom of the trees, and if there should be a lack of snowfall it might prove decidedly beneficial by preventing deep freesing of the soil and consequent root injury.—Prof. J. W. Crow, O.A.C., Guelph.

Short Courses in Fruit Growing

Fruit growing from A to Z will be Fruit growing from A to Z will be dealt with in a practical, instruction-al manner at the horticultural short course to be held at the Ontario Agri-cultural College, Jan. 23 to Feb. 2. The course will include lectures and

practical demonstrations on pruning ractical demonstrations on pro-ad handling spraying machinery In addition to the regular s

and annuing spraying macinnery.

In addition to the regular short in the spraying machine and two in box backing will be conjugated at the same time. The first course, the spraying spraying the spraying the spraying the spraying the spraying the spraying the spraying spray

Experimental Union Meets

(Continued from page 2)
250 acres quite as easily as our grand-fathers did 50 with their flails, cradles and whetetones

SEVERAL SPECIALTIES BEST SEVERAL SPECIALTIES MEST
"Do not put all your eggs in one
basket" was a further deduction made
by the Professor. He had found that

the men who were making the most money were those who had two or three large specialties. For instance, on one farm with \$2,750 labor income. For instance, on one farm with \$2,750 labor income, dairying and potatoes were the two specialties. In only one case cited had a man who specialized on some one thing to the neglect of all others came very high up on labor income. He retailed milk.

At the Tuesday evening session two interesting illustrated addresses were given. Professor J. E. Howitt, of the Ontario Agricultural College, after general talk on the eradication special talk on the eradication of weeds, had itself and the weeds and special to the reason of a screen showing the weeds in their nascreen showing the weeds in their nascreen showing the weeds to be a screen showing the weeds to be a screen showing the weeds to be a screen with the screen of the weeds to be a screen with the weeds the weeds to be a screen with the weeds the weeds to be a screen with the weeds to be a screen with the weeds the well-weeds the weeds the weeds the weeds the weeds the weeds the we

Professor Zavitz not advocate that good agricult forested. the illustrations thrown on the screen he made it evithrown on the screen he made it evident that in many parts of Ontario are waste sandy lands that can be used for no other purpose used for no other purpose 1200,000 square miles in large waste that are in need of replanting. The forestry department are now sonding out 375,000 to 400,000 trees a year to use the screen of th out 37,000 to 400,000 trees a year to supply the demands for replanting waste lands. Altogether 2,500,000 trees have been sent out. Doctor Creelman said he believed that the township councils should take more through the councils should take more linewest in reforesting the lands with-linewest in reforesting the lands with-line and the councils of the council of the his audience of the council of the same of the council of the council of the same of the council of the council of the same of the council of the council of the same of the council of the council of the council of the same of the council of the council of the council of the same of the council of the council of the council of the same of the council of the council of the council of the same of the council of the council of the council of the same of the council of the council of the council of the same of the council of the council of the council of the council of the same of the council of the council of the council of the council of the same of the council of supply the demands for waste lands. Altogethe

In summing up their seven years' experience of cooperative experience in the use of legume bacteria with alfalfa, clover, peas, etc., Prof. S. F. Edwards stated that the largest amount of work has been with alfalfa and red clover. From alfalfa the percentage of valuable recentage for valuable recentage of which allows conclusively the value of inoculations was 50.4 and from red clover 55.6, which also conclusively the value of inoculations of the value of value of the value of the

the Experimental Union's the Experimental Union's work.

"These schools are distributed all over the province, but Western Ontario has taken the greatest advantage of the work." Mr. Morley Petiti, in a short report, told of the good results of the work being done in the experiments for the control of in the experiments for the control of the swarming of bees.

the swarming of bees, ELECTRICITY FOR PARMERS On the concluding evening of the session, Hon. J. S. Duff, Minister of Agriculture, presided. The principal speaker was Hon. Adam Beek, who spoke on electricity on the farm, tell-ing of the work that has been done by the Hvdyc-Electric Commission. ing of the work that has been done by the Hydro-Electric Commission and of the plant they were making to exteend the work in rural sections. Mr. Beek made clear the numerous ways in which electricity can be ap-plied on the farm by means of lantern dides, showing electrically-driven ma-

sides, showing the chinery in operation.

The election of officers for the ensuring year results as follows: President, F. W. Goble, Woodstock, who, in the absence of the president, W. J. Lennox, presided at the meetings tais Lennox, presided at the meetings tais Lennox, president, Lewis Toole. Lennox, presided at the meetings tails year; visce-president, Lewis Toole, Mount Albert; Board of Control, Dr. G. C. Creelman, Hon. Nelson Mon-teith, F. C. Hart, Jas. I. Dennis, H. Groh, and Jas. Miller; auditors, R. Graham and A. W. Mason. Prof. C. A. Zavitz, who has done so much to C. A. Zavitz, who has done so much to bring the Union to its present state of usefulness, will continue as sec-retary, and Prof. H. L. Hutt as tren-

How to Stimulate Production of Nitrogen in the Soil

Extract from "Artificial Fertilizers; Their Nature and Use." By B. Leslie Emslie, C.D.A., P.A.S.I., F.C.S.

"If the farmer grows a crop of clover or other leguminous crop, having in view the enrichment of the soil in in view the enrichment of the soil in nitrogen, he will naturally wish to have as big a crop as possible, and the way to ensure the proper development of a nitrogen-gathering crop, so as to enable it to rob the atmos-phere of the quantity of valuable nipage of the quantity of valuable ni-trogen, is to see that the crop is pro-vided with a sufficient supply of the other plant foods, viz., phosphoric acid and potash.

"No factory can be kept going unless regularly supplied with the mo regularly supplied with the mo-tive power necessary for the evolution of the finished product; no more can this nitrogen factory in the soil main-tain its productive capacity unless a tain its productive capacity unless a regular supply of power in the form of phosphoric acid and potash be available. Legumes, although inde-pendent of an artificial source of nitrogen, are nevertheless very dep ent on an easily assimilable supply of the other plant foods."

the other piant roods.

Farmers can obtain copies of this and other bulletins, treating of this important subject, by applying to GERMAN POTASH SYNDICATE,

Temple Building, Toronto, Ont.

In an old tree that is inclined to the value of inoculation.

'There are now over 90 schools poperating school gardens that we have other. This will hold the tree to schear from,' said Prof. S. B. Melerady in reporting on this phase of Cready in reporting on this phase of olit apart, two branches can be rought together and wound into each

Compare the "BISSELL" with other disks

Thousands of Canadian Farmers have tested the "Bisseli" Disk Harrow in the same field with other makes and found that the "Bissell" HAS THE GREATEST CAPACITY.

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"Bissell" does clean work where others make a poor job of it.

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buckle or hump in the centre no matter how stiff or hard the soil may be. built to stand hard usage. The simple method of balancing the driver's weight removes neck weight. It is the Harrow you should know more about.

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In our f scattered i an opportu the roosts niconlation

We pra dry mashe our dry ma oats are pred oats, it cauco indi ve give huttarmilk wheat is f cold night frost out in this wi VICE. The hab eating the to lack of ing is often

Buttermilk food and for all but The grit Without it Crushed o grit.

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Holsteins, Section in farm, grade cowi per acre.

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Notes on Feeding Poultry

J. W. Clark, Brant Co., Ont.

J. W. Clark, Brant Co., Ont.
In our fresh air house, we always feed the hens after they have gone to roost for the night. The feed is scattered in a litter and the hens have scattered in a litter and the hens have an opportunity as soon as they are off the roosts in the morning to scratch for their food and get their blood in airenlation.

We practice hopper feeding with dry mashes exclusively. The basis of our dry mash is crushed oats. Crushed oats are preferred to whole oats. Ro'l-ed oats, if fed in any quantity, will cause indigestion. For green feed, ed oats, if red in any quantity, will cause indigestion. For green feed, we give clover leaves or mangels; buttermik to drink. Whole corn and wheat is fed in the litter. On very cold nights, it will pay to warm the corn for the night feed to get the frost out of it. Where hens are fee in this way, I will guarantee tha they will lay and lay well all winter. Where hens are fed that

VICE RESULT OF BAD PEEDING The habit which hens acquire of The habit which hens acquire of eating their own eggs is generally due to lack of animal food. Feather eating is often due to the same cause. Buttermilk takes the place of animal food and is preferable to sweet milk

food and is preferable to sweet mik for all but very young chickens. The grit which hens take as food takes the place of teeth in humans. Without it indigestion is inevitable. Crushed oyster shell makes first class grit.

Peterboro Poultry Show

With 70 exhibitors showing over ,000 birds, the Peterboro Poultry show held last week in the Market iall, Peterboro, was the most suc-Hall, Peterboro, was the most suc-cessful in the history of the show. Mr. John Bennett, Toronto, who has al-ways placed the awards at this show, said that the quality of the entries had much improved this year.

had much improved this year.
Utility breeds were most in evidence. White Wyandottes were the largest class, with White Rocks in second place. In the Mediterranean breeds Buff and Brown Leghorns were numerous, there being four times as many entries as two years ago.

Dairy Herds Competition

The winners in the dairy herds com-petition conducted last year by the Western Ontario Dairymen's Associa-tion were announced last week at the annual convention of the association.

The winners were as follows among the patrons of cheese factories: 1, Peter Arbogast & Sons, Sebringville, the parons of oncess indorres: i., Peter Arbogas & Sons, Sebringwise: i., Peter Arbogas & Sons, Sebringwise: i. farm. 10 Holstein and Shorthorn grades, 79,720 bs. of milk, 7,972 lbs. of milk a cow, 407 lbs. of milk produced per acer; 2, Sepmour Cuthbert, Sweaburg Factory, 75 acres in farm, 14 Holstein grades, 106,727 lbs. of milk, 7,622 lbs. of milk a cow, 1,423 lbs. of milk per acre; 3, Fred Bodkin, London, White Oak Factory, 100 acres in Care, 100 acres in milk a cow, 483 lbs. of milk a cow, 483 lbs. of milk a cow, 483 lbs. of milk a cow, 484 lbs. of milk a cow, 484 lbs. of milk per acre; 4, Wm. W. Hartley, Beljamont Factory, 50 acres in farm, 8 Holsteins, 44,444 lbs. of milk, 5,655 lbs. of milk per acre.

acre.
Section 2: 1, W. G. Pearson, Holbrook, New Lawson Factory, 100 acres in farm, 17 Holstein and Holstein grade cows, 123,695 bbs. of milk, 7,276 lbs. of milk a cow, 1,236 lbs. of milk

bls. of milk a cow, 1,236 bs. of milk per sere.

CREMMENY PATSONS
Section I. 1, R. M. Bowie, Beachvills Creamery, 50 acres in farm, 8 Holstein grade cows, 2,10 lls. of butter fat, 262 bs. of butter fat a cow, 42 lbs. of butter fat produced per acre. 2: A. W. Vansickie, Onondaga, Brant Creamery, 230 acres in

POULTRY YARD at a cow, 10 lbs. of butter fat per journished to the dairy farmer to the none

SWEEPSTAKES MEDALS

Peter Arbogast & Sons, Sebring-ville; R. M. Bowie, Beachville. The winners in both classes again raised the standard for the amount of milk and Lutter fat per cow over previous

The annual meeting of The Canadian Shire Horse Association will be held on Friday, Feb. 2nd, at 10 a.m., tion," and in Room F., King Edward Hotel, Toronto. Members from east of Port Referendum

agent

The next annual meeting of the Dominion Grange will be held in Victoria Hall. Torento, Jan. 24 and 25. In addition to routine business, plans will be discussed for pushing the work of the Grange, and addresses on economic subjects will be arranged for Mr. Geo. Keen, Brantford, has agreed to lead the discussion on "Cooperation of the Cooperation of the C

WESTERN ONTARIO DAIRYMEN HAVE SUCCESSEUL CONVENTION

Dairy Production Increasing. Creameries Have Record Year. Dairy Commissioner Ruddick Looks for a Continuance of High Prices for Dairy Produce

of Ottawa at the 45th annual convenmen's Association held in Ingersoll,

That the dairy industry in western Ontario is in a thiving condition was made manifest by the reports read and addresses given at the convention. Convention week is one of the most important periods of the year to the dairymen in the western district represented by the association. Last week the period of the That the dairy industry in western for hours and prevented some of the for hours and prevented some of the leading speakers from being present, the attendance was large, almost as large as usual, and the addresses and

discussions instructive and helpful.

THE BIG TROPHY
As usual, the exhibit of cheese and As usual, the exhibit of cheese and butter proved one of the most inter-exting features. While the number of exhibits was not quite as large as usual, due in part to the prevailing high prices, the quality and finish of both classes of exhibits were high class. This is shown by the fact that every prize winner but one scored 97 points or over out of a hundred. Chief ! points or over out of a hundred. Chief interest, as always, centered in the winning of the handsome cheese bursers' trophy, valued at \$150. This year the honor fell to D. Menzies of Molesworth, who won a number of other awards. This cup must be won. three times or twice in succession be-fore it becomes the property of the party winning it. This is the first pear Mr. Menzies has won the cup. It was first offered for competition in

THE DAIRY PARMS CONTEST

Considerable interest was around Considerable interest was aroused by the presentation to Mr. Isaac Hol-land of Brownsville of, a handsome silver tea service as the second prize for western Ontario, in Farm and Dairy's prize farms competition held pairy's prize farms competent man anst year. The presentation was made by Mr. E. T. Henderson, president of the Canadian Salt Co., Windsor, who during the past three years has given \$400 to assist the committee of management in the conduct of the competition. Mr. Henderson praised Farm and Dairy for the good work it is doing and incidentally suggested that the farmers and manufacturers of Canada should work together to make this the greatest country the world has ever seen. He congratulated Mr. Holland highly on his success. Mr. Holland, in his reply, spoke of the benefit he had derived from the competition and was pleased that he had brought the honor to Oxford county

WHILE the prices of dairy products have been high, they are likely to remain so, was the J. N. Paget, Camboro; Simcoe group, portrant prediction made last week located and the summission of the western Ontario Dairy on of the Western Ontario Dairy. Jon of the Western Ontario Dairy. In the Cassociation held in Ingersoli, the state of the summission of the Western Ontario Dairy. Jon of the Western Ontario Dairy.

ler; representatives to Western Fair, Frank Herns and John Brodie, Ma-pleton; representative to Canadian National Exhibition, Toronto, Frank Herns and R. Johnston, Woodstock.

PRESIDENT'S ADDRESS

PRESIDENT'S ADDRESS

President Wm. Waddell of Kerwood abowed that while there had been considered to be a prices early in the season and you prices are prices real; incel established make prices real; incel established me on which the industry is now established. The total exports for the year will equal, if they do not exceed, those of 1910. While there has been a decrease in manufacture or about 68,000 boxes of cheese there has been an increase of 170,000 boxes of butter. The exports cheese there has been an increase of 170,00°) boxes of butter. The exports of cream to the United States were only about one-half of what they were in 1910, owing largely to lower prices in the markets on the other side and higher prices in Britain. Canada's home consumption of dairy produce continued to increase. The increase continued to increase. The increase cannot be less than \$2,000,000 in value every year, including milk and all its products. The total home trade cannot be far from \$80,000,000 a

one for the dary farmers.

DIRECTORS' REPORT

In the report of the directors regret was expressed that while prices for cheese and butter had been high, the cheesemakers did not share in the the cheesemakers did not share in the resultant benefit because of the de-creased output of many factories on account of the dry season. The mem-bership of the association last year was 315. Continuing, the report said: "It is just possible that undue com-petition between factories is not hav-

ing a good influence on the industry as a whole. Might it not be possible for the manufacturers in certain dis-tricts to meet and decide on respective territory, thus dispensing with different factories hanling the milk

"A special officer was again employed to deal with cases of deterioraployed to deal with cases of deteriora-tion or watering of milk. Your di-rectors respectfully recommend the incoming board of directors to con-tinue this system. The association is debt for this work for last year \$59.70.

"In some localities cheese factory "In some localities cheese factory and creamery managers notice a ten-dency during the factory season of a few producers to ship milk and cream (Concluded on page 15)

Write for my prices before selling Ernest Howell, St. George, Ont.

CAN EARN MONEY OF SE cure useful articles of house-hold furniture, clocks, dishes, kitchen utensils, books, etc., by seeing their friends and neighbors and getting them to sub. scribe to this paper. Cash commissions allow. e on new subscribers. Get us 25 new sub-scribers at only \$1,00 a year and we will pay you \$15,00 cash.

FARM & DAIRY, Peterboro, Ont.



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FARM AND DAIRY

Peterboro, Ont.

AND RURAL HOME

Published by The Rural Publishing Com-pany, Limited.

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oy Cattle Breeders' Associations.

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OUR PROTECTIVE POLICY

We want the readers of Farm and Dairy to the want the readers of Farm and Dairy to the want the readers of Farm and Dairy to the want they can deal with our advertisers with they can deal with our advertisers with the want of our advertisers are unreliable, seen in the slightest degree, we will discontinue the want of the want o

FARM AND DAIRY PETERBORO. ONT.

ECONOMY THAT TENDS TO POVERTY

The problem of securing teachers in our rural schools is promising to overshadow in difficulty the problem of securing efficient farm labor. Teachers there are in numbers almost sufficient to fill our schools, but really good teachers are scarce indeed. Why are our young men neglecting this, one of the poblest of all professionsthe imparting of knowledge to future congrations?

We Canadians have often been accused of wasteful extravagance. As of fact it was bringing in a revenue a nation we are said to be drifting into the same expensive habits that | are attributed to our United States neighbors. National extravagance is for by weight, are making the missupposed to be one of our great sins, take of not taking into account but-But in some things we have been too economical. When it comes to hiring ity of our cheese factories milk is school teachers we have been so economical that good teachers are scarce But this system is bound to go, and difficulties under which Ontario fruit

Economy in teachers is the last economy to which a wise people will descend. We should keep our best teachers no matter what the price. We should make the financial returns such that instead of being a stepping stone to other lines of endeavor that are more profitable, teaching will become a profession, an occupation for men of wide vision. Cramming in facts and figures is not teaching. We need school teachers who can teach our children not only to mechanically repeat what others have written in books but to be able to think and plan for themselves. That is true education, and such education can only be given by thoroughly trained men and women who are making a life work of the profession.

We have not this class of teachers in our rural schools. Our economy in dealing with the school teacher problem lies in a more liberal view of the importance of the profession and financial returns to the teacher that are comparable with the returns for similar service in other lines of endeavor. Let us loosen our purse strings and make the teaching profession worth while to the best men, who now pass it by.

TEST FOR BUTTER FAT

"We never got the greatest value from keeping individual records of production of our dairy cows until we started to use the Badcock test as well as the scales," said a successful dairy farmer to an editor of Farm and Dairy recently. "We are paid for milk on the butter fat basis at our cheese factory. Through records we have found that several of our cows that we had thought inferior were really bringing us more money than others that gave more milk."

A record of the weight of milk given by each cow in our herds is valuable as an indication of the producing ability of the cow. Truly accurate records, however, must take account of both the weight of milk and quality of milk. For instance, a cow giving six thousand pounds of three per cent. milk will produce in the season one hundred and eighty pounds of tutter fat, which, paid for at the rate of twenty-five cents a pound, would be worth forty-five dollars. Another cow giving only five thou and pounds of milk, did her milk test four per cent., would produce two hundred pounds of butter fat worth fifty dollars. If records of the milk production only were kept, this second cow would probably go to the butcher before number one, when as a matter of five dollars a year more than the first one.

Many dairymen, where milk is paid ter fat production. At the majorstill paid for by the pooling system. of this issue. One of the most serious

who have kept records of both milk and fat production and bred accordingly.

INSTRUCTORS' SALARIES

Mr. John McGregor, a director of the Eastern Ontario Dairymen's Association, estimates the expenses of a dairy instructor at \$604 a year This leaves the instructor \$394 toclothe himself and keep his family. While this estimate of expenses is too large in some districts, in other districts it is moderate, as travelling expenses are large, and these the instructor must meet from his meagre salary. Truly a small return when the importance of the service rendered is considered.

The great improvement that has taken place in the quality of cheese manufactured in Ontario factories has been due in no small measure to the excellent work of the dairy instructors. So beneficial have been the results of the inspection and instruction work that it is now proposed to carry instruction to the patrons on the farms. To carry on this work to best advantage the staff of instructors will have to be increased.

To attract the best men, however, higher salaries will have to be paid. A salary such as the instructors now receive that affords them only a bare livelihood will not attract good men to the profession. The recommendation of the Dairymen's Association that the instructors' salaries be \$1,200 is moderate and should be acted on by the Provincial Government.

The progress that the industry of fruit growing is making in Quebec province and the increased interest in the fruit industry Fruit Growing that farmers of that In Quebec. province are taking

is reflected in the progress made by the Pomological and Fruit Growing Society of Quebec. Optimistic indeed was the outlook taken on the fruit possibilities of the province by the many fruit growers who gathered at the last meeting of the society held at Macdonald Colege recently. Portions of Quebec supposed to be entirely unsuited to the production of fruit have been proven by members of this society to have almost ideal conditions for the growing of the very highest classes of dessert apples. Some of the more optimistic fruit growers claim that there are only two or three counties in the whole province that cannot be made to produce apples profitably. Quebec farmers are taking much greater interest in this most profitable industry than in the past. Truly the fruit belt is extending.

Of the short courses to be held at the Ontario Agricultural College, two in particular should be encouraged by fruit men: We refer to

Valuable the courses in box Courses. packing of apples announced on page eight

noments and good teachers are and trustees of many school districts in the next few years the dairymen men have labored in competition for find difficulty, particularly in the who will find themselves ahead on the fruit trade of Western Canada has

tario fruit. The barrel pack with which our fruit men are so familiar is not popular in Western Canada, where consumers are well acquainted with the box packed fruit from the Western States and British Columbia, and prefer that style of packing. These courses are intended to instruct Ontario fruit shippers in the styles of packing preferred on one of their best markets. The first course of this kind in Ontario was given at the O.A.C. last winter, and proved successful. If these courses prove popular it is expected that the work will be extended to all the fruit growing sections of the province. Those who are interested in seeing Ontario fruit take a first place will take advantage of this opportunity to inform themselves as to the lest methods of packing apples in boxes.

The year 1911 was marked by a great increase in Canada in the number of cows tested for milk and fat production. In the

Tests for Canadian Holstein Dairy Cattle tests conducted by the Breeders' Association,

there has been a large increase in the number of cows under test, and, better still, many new breeders who have never before been in official test work. have entered cows that have made good records. The increased interest shown in Record of Performance work is still more marked. So great has been the number of entries of cows in this test that the present staff of inspectors have found it difficult to keep up with their work. This interest that breeders of dairy cattle are showing in production tests shows how far we are getting away from the show ring standard of judging dairy cattle. The dairy cattle that command the high prices now-a-days are the ones that make the big records, not the ones that take the first prizes at the shows. This means more intelligent breeding and a much more rapid improvement in the producing ability of our dairy cattle.

"Eternal vigilance" has been interpreted as "infernal diligence." Either will bring success in farming. Both mean close application to business.

Improve Stock by Cooperation (Breeders' Gazette)

Cooperation has been such a potent factor in Denmark in the development of the dairy industry, which forms the basis of the nation's prosperity, that the system has been largely extendto breeding affairs. The census 1909 showed that there were then The census 1,884 cooperative breeding societies in Denmark, of which 1,259 were devoted to cattle, 270 to horses, 253 to hogs ed to cattle, 270 to horses, 255 to hogs and 102 to sheep. About one-fourth of the cattle and horses and six per cent. of the hogs were kept by mem-bers of the breeding societies. The cooperative dairies numbered 1,167. If the results of cooperation in breedhind results of cooperation in breeding are so satisfactory as they have been in dairying, much may be expected from Denmark as a producer of improved live stock.

Cooperative systems patterned on Danish idea are succeeding bed expectations in America. They introduce high-class sires, which rapidly improve the average character of the stock in their localities.

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And so how this DAIRY, O "A Pape

Increased Land Values in B. C. W. J. L. Hamilton, Nanaimo Dist.,

A committee of enquiry has recently been appointed by the City Council of Victoria, B.C., to enquire into the increased cost of living in this province. Farm produce is dearer than it used to be, and lately milk has been raised two and a half centa

XII

A great number of people in recent weeks have been wondering where we got the slogan that forms the tail-piece of the advertising

We promised some weeks ago to tell you, so shall proceed with

the story herewith.

It had its beginning at least four years ago when THE RURAL PUBLISHING COMPANY was organized to take over the business of two farm papers that were formed into one, which has since come to be known as FARM AND DAIRY

At that time we laid down the policy that this paper should be one of CHARACTER.

It would have to be of THE HIGHEST CHARACTER—as regards its articles and news, as regards its advertisements, and as regards all its dealings with the

We planned, that NO MATTER WHAT IT COST US in immediate loss of revenue, NO FALSE ADVERTISEMENTS, no advertisements of Patent Medicines, Electric Belts, Liquor NOR QUESTIONABLE ADVERTISE-MENTS of any nature would ever be permitted to gain entrance to its columns.

We formulated a definite editorial policy to make this paper of the greatest possible help and intcrest to the average farmer; to fight his battles, through thick and thin; to stand ever for what we believed to be the right in spite of opposition from whatsoever quarter.

The paper must be A FARMER-TO-FARMER-not a swivel armchair theorist to farmer PROPO-SITION. It must lead the way and be aggressive on the great farmers' questions of the day.

Such a policy we have followed developed. RESULTS HAVE BEEN MOST GRATIFY-ING. Our people have appreciated our efforts. They have stood THEY HAVE CAUSED THIS PAPER TO GROW WON-DERFULLY during the past three

While seated at dinner one day over a year ago in the Walker House, Toronto, one of our editors chatting with an editor of another farm paper was thus adressed :-"I don't know what there is in your little paper. but SOMEHOW THE FARMERS ALL SWEAR BY YOU.

2-

And so this is the history of how this paper, FARM AND DAIRY, came to be-

"A Paper Farmers Swear By"

quart in that city, and that, too, in spite of a great increase in popula-tion and the consequently increased

consumption of milk.

One great cause of the high price of dairy products is the high price of labor, about \$3 a day on the average, so that it is difficult to obtain farm hands

IANDA WORTH OVER \$600 AN AGRE
Another and very important cause
is the phenomenal rise in land values.
Many of the farms around Vietoria
are now being built over, having been are now being built over, having been sold at fancy prices. Land values for many miles out have been greatly en-hanced, so that farming, which was profitable on land worth \$200 an acre. becomes a losing proposition when that land is worth anywhere from \$600

that find is worth anywhere from \$600 to several thousand dollars an acre; especially when this money, invested in safe mortgages, will bring interest at the rate of eight per cent.

This increase in land values has largely affected the dairy interests. Soiling has been the exception rather than the rule, and a large acreage has, therefore, been necessary for the maintenance of a dairy herd. With changed conditions other and more in-tensive methods of dairying are being tensive methods of dairying are being comployed, but by no means universally, so it has been incumbent on the dairymen to raise the price or see their profits seriously diminish. Even with the best methods speculation has made dairying precarious on the land nearest the city.

Truly the sudden awakening into phenomenal expansion of a province creates problems which only a few of the forehanded can utilise to their advantage.

Why I Believe In Sheep Raising

John A. Turner, Calgary, Alta. Sheep are easily managed and are the most profitable animal any farm-er can keep. One reason why they are the most profitable is that they yield two profits a year,—wool and mutton.

There is a breed of sheep that will do well in every location. Where one breed would starve, another will thrive. We must not confine ourselves to the breed we like best, but adapt ourselves to the conditions in which we live and select animals best suited

we live and select animals best suited to bring us success and profit.
We do not neglect to accure the best ram that can be bought. He will more than pay for himself in one season's crop of lambs.
Sheep help to keep the farm clean. They are fond of many weeds that are destructive to crops. and will even eat them in preference to good, green areas. They will clean tence corners are the proposed of the preference in the summer fallow.

allow.

A pure bred flock will pay much arger returns than a grade flock. At that is my experience. I had larger returns than a grade nock. at least that is my experience. I had 1,000 grade ewes from 1886 to 1889, and did very well with them. As the range became settled. I went into a pure bred flock on a good foundation, and have made for several years over \$1,000 annuly from the flock, selling the lambs as rams and a few of the later ones as yearlings, and keeping the flock down to about 50 breeding

My advice to beginners in sheet

My advice to beginners in sheep breeding is to start in a small way. It is a business one learns by experience. In raising stock of any kind, one makes his own luck. I cannot emphasize too much the necessity of good care. That is the only way profits will be realized. If one is interested in his business it becomes a pleasure and, as well, it is interesting.

It costs \$33 to \$40 a year to feed a cow a maintenance ration. The feed that we give her over and above this amount is the feed that returns the profit to us.—R. W. Ward, Peterboro Co., Ont.

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Does it not mean a great deal to YOU, the prospective buyer of a Cream Separator, that such men as

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and many others like them, good dairy farmers as well as great leaders in every sphere of human endeavor, each of whom is possessed of much personal experience and a thouand authoritative sources of separator information, are among the 1,375,000 satisfied users of DE LAVAL Cream Separators?

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exception in value-giving-so why hesitate when all this saving is within your reach. Send your order without delay and share in this bargain carnival. We anticipate hustling, bustling busy days, and we're in fine fettle to meet the rush satisfactorily.

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so pronouncedly beneficial. We say in all sincerity-use this Catalogue-test its values, make it your guide to greater economy with this far-reaching assurance... The EATON guarantee.

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About Free Horse Doctor, Pook

About Free Horse Doctor, Book
Did you see our announcement lastweek of the Horse Doctor and Vederinary Hand-Book, which we have arranged te give you free? If not
you will be wise to look up Farm and
Dairy of last week and read carefully
the large advertisement published on
page eleven, telling all alout our offer
to give you this great book
This Veterinary and Horse Doctor
book tells about the Disease of Horses
(over 200 pages describing all the discases of the horse, telling all the discases of the horse, telling all the dispolyment of the dispersion of the dispersion

The book contains 520 pages (71-4 by 5 inches), and is just such a book as is worth while having. In addition to describing all these diseases it tells about Horse and Cattle Medicines, and gives Prescriptions and Preparations, including drenches, salves, liniments, ointments, poultices, salves, liniments, ointments, poultices. It also teaches Practical Horse Training, telling how to Break and Train Colts and Teach Trick Horses.

We have arranged to give this book



Book Teaches Horse Taming

away free to our people who will send us two new subscriptions to Farm and Dairy each taken at only \$1 a year. The book will be sent postage paid and free of all cost to you on receipt of the two new subscriptions.

SPECIAL TO OUR OLD SUBSCRIBERS

IS IN M

43.

In order that our regular subscrib-ers may more readily obtain this book we have decided to accept each one's own renewal subscription at \$1, along with one new subscription at only \$1, and the book will be sent promptly to

If you desire this book in a more durable cloth binding send 25 cents extra to cover the extra cost.

We anticipate a big demand for this book, which is Gleason's Veterinary Hand-Book and System of Horse Tam-ing, and may not be able to supply it on this unusual basis after the next month.

month.

Through enabling you to doctor your own stock, this book may ave you hundreds of dollars during the next few years. If you want a copy, don't delay, but send in the two new subscriptions or your own renewal and one new subscription right away.

Probably most of our readers noticed the small one-inch advertisement in the last two issues of arm and Dairy, in which Mr. H. R. Nixon, of St. George, Opt., offered O.A.C. No. 21 barley for sale. Mr. Nixon has advertised with us for several powers of pure bred stock. Not more than one produced by the several powers now, his ads. having paid and well. Four days are appeared, Jan. very compared to the produced by the several powers of th

elsewhere. Start your advertisement with Farm and Dairy next week.

Subscriptions have been rolling in to us of late. People seem to be lik-ing Farm and Dairy better each year. The date on your label each week tells you when your subscription is due. Send in your renewal promptly and you will greatly oblige us. Then you will not run any chance of missing any issues.

Farm and Dairy is becoming more Farm and Dairy is becoming more and and more popular with our com-mercial advertisers too. Mr. Geo. P. Maude, manager of the Superior Barn Equipment Co., of Fergus, Ont., a new advertiser in Farm and Dairy, a new advertiser in Farm and Pauly, wrote us recently about his advariasement that appeared in our Breeders' Magazine Number, Dec. 7th; he says: "Our advertisement was most pleasing to us in the way it was set up, and

"Our advertisement w.e most pleasing to us in the way it was set up, and also in the results thus far obtained. We will endeavor to have copy for your next issue and regularly throughout the coming year." This adversion of the coming year. This adversion of the coming year. The set of the property of

The Bartlett Company, of Detroit, who have been advertising cotton seed meal, state: "We are getting excellent results from Farm and Dairy; in fact, we believe the best results in fact, we believe the best results obtained from any paper in Ontario, considering the amount of money invested."

We would again ask you to familiarize yourself with our Protective Policy as printed each week on the editorial page, and remember we accept none but reliable advertisers with whom you can deal with every assurance of fair treatment.

Don't forget our great Poultry Annual now in its fourth annual series to be out in two weeks' time—Feb. lst. It will be sure to please and interest. Why not tell a neighbor about it and have him subscribe in time to get it?

Dairy Thoughts

Wooden milk pails are asually dirty ails. We need something easier nails leaned.

It is a false economy to breed from the poor cows; better sell three of them, and buy one good animal with

It is not enough to know that a cow gives a pailful of milk when she is fresh; we want to know what she produces in a year.

There is no doubt that the dairyman is well advised who sticks close y to the breed which suits his dis-

There are too many animals in one yards to-day saved from bulls bred to cows for no other purpose than to "freshen them again."

Do not flush the separator bowl with skim-milk to secure the separation of what whole milk is left in it. Use warm water instead. tion

Give the cow every opportunity to drink all of the good pure water she drink all of the good pure water she wants. It is the biggest part of her milk. The best way to give it to her is by individual basins in the stable. Out in the cold she will not drink enough.

Some cows are such persistent milkers that it is almost impossible to dry them off before freshening. This should be done, however, for every good cow needs a little rest.

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al



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We also manufacture a wonderful line of poultry fencing and farm gates. As encies almost every here. Agents wanted in all unassigned territory.

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Our free booklet, "Eastlake Metallic Shingles," will save you money and worry, no for it and get the information you want about roofing. Phone Park. 800.

Metallic Roofing to

January 18,

Creamery

Butter maker contributions to ask quesions of butter making jects for discu-to Creamery 1

Dairy Exh

The exhibit of

The exhibit of one of the best each year at the of the Western Association. The report of the where in the renor quite at the quality high. The prin were captured Molesworth, Ont

THE PR The prize win September, whit Atwood (won fla Brown, Ethel, 97.65; worth, 97.49; 4, 97.48.

September.

97.40.
September. colt South Middelon, Middelo

96.98.
Fifty-six-pound b
H. Martin, 96.35;
93.49; 3, P. L. Doi
W. Patrick, St. T
Three Canadian
W. Hamilton, Mc
Donnelly, Scottsvi
Thompson, 97.15.

Special prizes Cheese buyers' to value \$150, must

or twice in suc Molesworth, Ont Imperial Bank property of the ing the highest

times or twice i

times or twice is cheese, one cheese, one cheese, one cheese orded. D. Menzier Gold watch, vial prize of \$12 securing the hig (except Stilton's tain brand of Molesworth, Ont. Special for hig colored cheese, D. Specials for but derney Butter C St. Leon, Que. Woodstock, Ont. Special for Se

Special for Se made with Hans and Color, W. S. October colored,

ored, John Franc On October white For best finish

Joking cheese o a cheesemak

Dairymen's Clear C. Allan, Woods est and most a butter, same con

For second hig

except Stilton's, J. K. Brown, E

For highest so O'Flynn, Tavisto St. Leon, Que. For highest white cheese, R J. K. Brown.

wood For highest soc

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CALVES RAISE THEM WITHOUT MILK teele, Briggs Seed Co., Ltd., Toronto, Ont. Cheese Department

Makers are invited to send contributions to this department, to ask questions en to matters relating to choose making and to suggest subjects for discussion. Address betters to The Cheese Maker's Department.

seesessessessessessesses | enough to interfere with the proposi-

2. The possibility that the patrons would be less careful in washing the cans. This assumes that the more dif-Makers are invited to send contributions to this department, to sak questions end to the department to the contribution to the department to the contribution of the contribution and the contribution are made for a superscript to the contribution of the practice of pasteurization. The objections that are raised to the practice of pasteurizing whey at cheese factories were well summed up by Mr. Frank Herns, Chief Dairy Instructor for Western Ontario, at the Conference of Dairy Experts held.

1. When the whey is short they get none and therefore object to pay for heating the whey which the other fellow is getting. They seem to assume that the surplus of the spring should be kept in the tanks for mid-

summer.

2. They object to paying the small sum necessary for the remedy, that of having the shey measured out.

3. They object to great the summer of the surplus having the supplus whey or to prove any other means of disposing of it. Fearing that these "kickers" may go to some other factory the matter is not presend. Thus on account of failure to deal with details the main point is lost sight of. In such cases makers, can hardly be blamed for following, a the line of least resistance and making sure that there is always plenty of whey, such as it is. of whey, such as it is.

of whey, such as it is.

If some measure could be worked out whereby all factories would pasteurize, thus placing them on the same basis, the drawbacks, which although local in character, hinder the voluntary extension of the system, would be largely overcome. The best would be largely overcome. The best patrons are alive to the importance of having the whey, if it must be re-turned, as free as possible from ob-jectionable features. If conditions are made reasonably favorable the major-ty of factorymen can be depended on to do the heating properly and look after the details.

When necessary, provision can be made for measuring out the wney or arranging to handie the surplus in spite tanks, or have it drawn away and the tanks cleaned regularity, which should be done in any case.

Dairy Notes

At a meeting of the directors of the E.O.D.A., at Campbeliford, the the E.O.D.A., at Campbelifold, the retiring president, Mr. Hebry Glendinning of Manilla, was presented with a hanosome satchel and godheaded cane by Mr. Edward Kidd, M.P., on behalf of the directors, as a mark of esteem, and in recognition of his services.

A resolution was passed at a meeting of the directors of the association, arranging to pay the in-structors for attendance at annual factory meetings on the same basis

as last year. as last year.

The executive committee was requested to consider the advisability of holding a dairy herfs' competition in Eastern Ontario, as has been done for several years by the Dairymen's Association of Western Ontario, in Western Ontario.

An application from Alfred Street to be appointed public prosecutor for all Eastern Ontario in the case of patrons tampering with their milk, was read. The matter was referred to the executive committee.

At the E.O.D. Convention, Mr. H.
H. Short, from Ottawa, introduced a new cheese box made from wood fibre by a new process. This box made a favorable impression. These boxes, which appear to be made from tray tough, pilable material, are not liable to aplit readily, and are also said to possess great resistance against moist-ure, beides being considerably light-er in weight than the wooden boxes now used. They can be secured for reasonable prices and may be soon used in the cheese trade.

If milk comes to the factory with-out fermentations developed the cheese maker can then add the 11ght starter to get the 11ght flavor. With proper cool curing facilities, the de-sirable flavor is retained, and we have the start of the consumer will pay a premium for ... -R. W. Ward, Peter-boro Co., Ont.

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



Some of Those Who Made Things Interesting at the E. O. D. A. Convention

Some of Those Who Made Things Interesting at the E. O. D. A. Convention
The officers and speakers at the recent Eastern Ontario Dairymen's Corrention at Campbelliord are the ones to whom credit is due for the success of the
Convention. Most of these here shown are well known to Farm and Dairy readSonater D. Derbyshire, Brossles is Hy. Gleendinning, retiring preddent: No. 2,
8, John McGregor, Alexandria; No. 5, J. P. A. Thompson, Almonte, See'y: No.
8, John McGregor, Alexandria; No. 5, J. P. A. Thompson, Almonte, See'y: No.
10, John McGregor, Alexandria; No. 5, J. P. A. Thompson, Almonte, See'y: No.
11, John McGregor, Alexandria; No. 5, J. P. A. Thompson, Almonte, See'y: No.
12, John McGregor, Alexandria; No. 5, J. Prof. W. H. Day, Guelph, and
No. 5, A. D. MacIntosh, District Representative in Hastings County.

—Photo by an editor of Farm and Dairy.

at Ottawa last December, as follows:

OBJECTIONS TO HEATING 1. Cost—Averages about 75c (not greater than \$1) a ton of cheese; 20,-000 lbs. whey. This is not great

better there are always a few who cannot be trusted to do the work cor-rectly. However, our experience is that about 70 per cent. of the factorthat about 70 per cent. of the factor-ies pasteurizing carry out the neces-sary details; of the other 30 per cent. probably 15 per cent. do the heating properly but are handicapped on ac-count of surplus whey, wash water, or lack of water supply. The other 15 account of surplus whey accessed and make per cent. are simply careless and make little effort to do good work.

4. The assertion that not cleaning the tanks will prevent yeasty flavors— Some makers advance this excuse for not cleaning the tanks. We find factories where the tanks are not cleaned that are troubled with fruity and yeasty flavors, so that this argument does not hold good.

5. It is said that in checking the development of lactic acid by heating, putrifactive bacteria that may surputriactive bacteria that may sur-vive will grow more rapidly than if the whey is allowed to sour natural-ly—From a practical standpoint when writer has as yet observed no bad re-sults from this source. Is the tem-perature employed and time of expos-ture sufficient. ure sufficient to control this point?

6. Dilution of the whey from con-densed steam—Hardly worth consid-

WHERE PATRONS OBJECT

A rather narrow view is occasionally taken by some patrons and per-haps by some makers. For instance, suppose the case of a factory where the majority of the patrons desire the whey pasteurized. At the meeting someone will object on one of the following grounds:

AND UPWARD SENT ON TRIAL. GUARANTEED. A brand new, well made, easy running easily cleaned, perfect skimming separator for \$15.95. Skims one quart of milk a minute, warm or cold. Makes thick or thin cream. Thousands in use giving splendid satisfaction. Different from this giving spiciation satisfaction. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements. Our richly illustrated catalog tells all about it. Our wonderfully low prices on all sizes and generous terms of trial will astonish you. Our twenty-pear caraging products you occurs America. guarantee protects you on every American Separator. Shipments made promptly from ST. JOHN. B., and TORONTO. ONT. Whether your dairy is large or small, get our great offer and handsome free catalog. ADDRESS,

AMERICAN SEPARATOR CO., BAINBRIDGE, N. Y.

nt

d

is resident

Butter makers are invited to send contributions to this department, to ask questions on matters relating to butter making and to suggest sub-jects for discussion. Address letters to Oreamery Department.

****************** Dairy Exhibit at Ingersoll

The exhibit of cheese and butter is one of the best educational features each year at the annual conventions of the Western Ontario Dairymen's Association. This year, as stated in the report of the convention published where in this issue, the exhibits sewhere in this issue, the exhibite for not quite as numerous as usual, at the quality of the exhibits was igh. The principal special prizes are captured by D. Menzies of Molesworth, Ont.

THE PRIZE WINNERS THE PRIZE WINNERS
The prize winners were as follows:
September, white-1, R. A. Thompson,
Atwood (won flavor), 97.65: 2, J. K.
Brown, Ethel, 97.65: 3, J. D. Menzies, Molesworth, 97.49: 4, W. S. Stocks, Britton,

worth, 77.49; 4, W. S. Stocks, Britton, 77.49; Assorber, Scotter, S. S. Stocks, Britton, 97.50; 2, J. L. Donnelly, Spatus, M. S. Stocks, Britton, 77.50; 3, D. Mennies, 77.15; 4, H. Ostober, White-I, W. S. Stocks, Britton, 77.40; 3, B. F. Howes, Atwood, and 4, Geo. Empey, Newry, tie, 97.16.

Glober, coloured-L, D. Mennies, Stocks, Britton, 77.40; 3, B. F. Howes, Atwood, and 4, Geo. Empey, Newry, tie, 97.16.

Glober, Coloured-L, D. Mennies (upp.) 74.51; A. H. Youn, Palmeration, 97.32; A. H. Dennelly, Straffordville, 59.49.

One 5-pound box butter—I, E. M. Johnson, Innerkip, 59.32; 2, W. M. Waddell, St. Terrood, 55.55; 3 H. W. Patrick, 84.

Twenty one-pound brints—I, T. O'Flyan, Tavistock, 56.49; 2, O. A. Barber, Woodstock, 55.35; 3. E. M. Johnson, Innerkip, 59.59; 4, J. H. Martin, St. Leon, Que., 59.59.

95.96. Pifty-six-pound box October butter-1, J. H. Martin, 95.35; 2, J. A. Logie, Paisley, S. W. E. Doig, London, 93.68; 4, H. Three Ganasian Stitton cheese—I, H. W. Hamilton, Monkton, 97.69; 2, C. J. Donnelly, Scottsville, 97.32; 3, R. A. Thompson, 97.15.

SPECIAL PRIZES

Special prizes were won as follows: Special prizes were won as follows: Cheese buyers' trophy, challenge cup, value \$150, must be won three times or twice in succession, D. Menzies, Molesworth, Ont.

Imperial Bank cup, to become the property of the cheesemaker secur-ing the highest total score, three times or twice in succession, on two cheese, one cheese ored, D. Menzies. one cheese either white or col-

ored, D. Menzies.
Gold watch, value \$25, and a special prize of \$15 to the cheesemaker securing the highest score on cheese (except Stitton's), made with a extrain brand of rennet, D. Menzies, Molesworth, Ont.
Special for highest score on October co'ored cheese, D. Menzies.
Specials for butter colored with Alderney Butter Color, J. H. Martin, St. Leon, Que. 2, C. A. Barber, Woodstock, Ont.
Special for September white cheese

woodstock, Ont.
Special for September white cheese
made with Hanson's Rennet Extract
and Color, W. S. Stocks, Britton. On
October colored, B. F. Howes, At-

wood.
For highest score on September colored, John Francis, South Middleton, On October white, W. S. Stocks.
For best finished and most stylish ooking choese on exhibition, shown by a cheesemaker using Wyandotte Dairymen's Cleaner and Cleanser, P. Or Allan, Woodstock. For the neatest and most attractive exhibit of butter, same conditions, J. H. Mar-

100

For second highest score on cheese except Stifton's, R. A. Thompson; J. K. Brown, Ethel; W. S. Stocks,

tie. For highest score on butter—1, T. O'Flynn, Tavistock; 2, J. H. Martin,

For highest score on September white cheese, R. A. Thompson and J. K. Brown.

Western Ontario Dairymen

(Continued from page 9) away from, thus weakening the local factories. Should the output of some of these factories be reduced to any extent the result will be an increased extent the result will be an increased do not patronize the home factories may not at certain seasons of the year get a profitable increase in price, especially if the local factory is obliged to close early in the season owing to a curtailed milk supply. Can not some satisfactory arrangements be made to change these conditions?

MAKER'S CERTIFICATES "During the past season all compe tent factory operators were granted "Makers' Certificates" by the Ontario Department of Agriculture. This seems to be working out well so far, and we trust will have a good effect on the business.

on the business.
"It is expected that at this session
of the Dominion Parliament the "Inspection Sales Act" will be amended
to include the branding of "Whey
Butter." The inspection of scales
used for weighing cream samples for used for weighing cream samples for testing will also likely be dealt with."

FINANCIAL STATEMENT FINANCIAL STATEMENT
The financial statement showed total receipts of \$4,981.85 and expenditures of \$4,820.46, leaving a balance
on hand of \$161.39. The principal
receipts were: Legislative grant,
\$2,000; sale of dairy exhibits,
\$2,000; money received from prose, Eccepts were: Legislative grant, \$2,000; sale of dairy exhibits, \$2,008.96; money received from prose-partions, \$440; members' fees, \$300. The main items of expenditure were Purchase of dairy exhibits, \$2,012.03 postage, stationery, printing, \$473.32 prosecutor's salary and expenses, \$270.30; periodicals for members, \$220.04; half of fines paid to fac-torises, \$220; stenographer's salary and directors' fees and expenses, \$560.80; convention expenses, \$149.03.

THE WORK OF INSTRUCTION THE WORK OF INSTRUCTION
The reports covering the work of
instruction and sanitary inspection
in the cheese factories and creameries in western Ontario were presented by Chief Inspector Frank Herns. These reports will be published in Farm and Dairy. They showed an increased production of butter of 1,758,000 lbs, and an increase of 4,328 in the numand an increase of 4,020 in the number of patrons of creameries. Six new creameries were erected, involving an expenditure of \$16,183. There was spent in the improvement of buildings \$13,496.

THE DAIRY OUTLOOK The manufacture of cheese, according to the instructors' reports, showed ing to the instructors' reports, showed a decrease in 144 factories and an increase make in only 25, while 25 made the same quantity as last year. The returns for 1911 are not yet complete but are likely to show the amaliest make in many years. There were were make in many years. There were 2.017 less patrons of cheese factories

For highest score on 56-lb. box than in 1910. Only 20 patrons were creamery buttor, J. H. Martin. For highest score on 20 one-pound For highest score on 20 one-pound creamery prints, T. O'Flynn. The prizes won by Mr. Menzies The prizes won by Mr. Menzies meeting Thursday evening. The provided of the property of the year, the results of which will be meeting Thursday evening. the year, the results of which will be announced later.

Dairy Commissioner J. A. Ruddick

Darry Commissioner J. A. Ruddick of Ottawa spoke on the outlook for the cheese and butter making indus-tries. His address was along the same tries. His address was along the same lines as the one he gave the week be-fore at Campbellford. Autralia and New Zealand are going to be the great dairy competitors of the future. Their exports of butter to the United Kingdom had grown from 10,028 long tons in 1903 to 60,247 long tons in 1911. Of cheese, principally from New Zealand, they sent 2,710 tons in 1902 and 20,873 tons in 1911.

All the speakers for the Wednesday vening session were prevented from eing present by the storms that ovening session were prevented from being present by the storms that blocked the railways. Dairy Com-missioner Ruddick and Chief Dairy Instructor G. G. Publow of Kingston took their places. Mr. Ruddick gave an outline of the history of dairying Canada along the lines contained in his recent interesting bu'letin dealig with that subject. Mr. Publow spoke of his trip last summer to Great Britain covering the same ground that he did at the Campbellford convention. he did at the Campbellford conven-tion. Three things, he said, are exen-tial in the manufacture of Canadian cheese, a cleaner, sweeter delivery of the milk at the factory, a tempera-ture of 60 degrees at the factory, and the keeping of the cheese until they are well matured. He also urged the makers, who are doing good work, to brand their cheese. brand their cheese.

"Casein in milk and its relation to the manufacture of cheese" was discussed by Prof. H. H. Dean, An out-time of this address will be given in Farm and Dairy. He again recommended the fat test plus two as about the best method of paying for milk now practical, and said that there is at least one factor in western Op-MILK VALUES

now practical, and said that there is at least one factory in western On-tario that is adding three to the test. Mr. C. F. Whitley of the Dairy Records Division, Department of Ag-Records Division, Department of Ag-riculture, Ottawa, gave the same ad-dress on "The Present Value of Cow-testing" that he gave at Campbell-

testing" that he gave at Campbell-ford. This address was published in last week's issue of Farm and Dairy.

Mr. Geo. H. Barr, chief of the dairy division, described different methods of bandling gathered cream.
An outline of this address will be published in Farm and Dairy.

COMPOSITION OF MILK.

The question, "What is Milk?"
was answered by Prof. R. Harcourt
of Guelph, in a paper that will be
published later. Great interest was
manifested by a number of the butter was answered by Prof. R. Harcourt of Guelph, in a paper that will be published later. Great interest was manifested by a number of the butter makers and creamery men in the address of Mr. C. Marker of Calgary. dairy commissioner for Alberta, who described the system of paying for the discoverbed the he system of paying for the diary exhibition were presented provided and the system of adirymen of Alberta have taken the stand that seems to be the college. The diary men of the oldest members of the association.

JOIN THE WORLD'S BIGGEST ARMY of Satisfied Users. Own a

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TWO CENTS A WORD, CASH WITH OPDER WANTED.—Young man to learn Butter and Ice Cream Business; also two men to travel. Must be experienced in creamery Business. Good salary and commission for the right men. Address Ideal Creamery Co., Fortage la Parairie.

FOR SALE—Iron pipe, Pulleys, Beiting, Rails, Chain Wire Fencing, Iron Posts, etc., all sizes, very cheap. Send for itst, stating what you want. The imperial waste and Metal Co., Dept. F.D., Queen street, Montreal.

just as the farmers are paid prices that vary according to quality for the horses, cattle and other similar products they sell, so they should be paid on a quality basis for their cream. It is the universally accepted view. The address was similar to the one Mr. Marker gave at the dairy conference in Ottawa last month, extracts from which have been published in Farm and Dairy. Further reference to it will be made later.

CLOSING PROCEEDINGS

Audels Answers on Refrigeration (2 Vols. \$4)

This is a well-timed work which explains in plain language he practical science of refrigeration in its many rapidly ex-ceding applications. It gives in detail all necessary informa-ion complete with 250 illustrations, on the practical handling of the machine and apparatus in use to-day.

To make the work an easy guide for careful study and ready reference the subjects are arranged in the form of "Answers. giving in plain language all the information requisite for sucecssfully and economically operating a plant of any size.

Andels Answers on Refrigeration are in every way up-to-date, both contents and the manufacture being denerously good. The two volumes contain 78 pages, strongly and handsomely the strongly and the strongly and

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Occupation.

Where Employed.....



N looking back over our lives, we often see that what seemed at the time the worst hours and the most helpless in their wretchedness, were in reality the best of all. They developed powers within us that had h eretofore slept; developed energies of which we never dreamed .- James Freeman Clarke

The Second Chance

(Copyrighted) NELLIE L. McCLUNG Author of "Sowing Seeds in Danny (Continued from last week)

Continued from last week)

Pearl, the oldest daughter of John Watson, a C. P. R. section man living in Milford, Man, receives a large aum of money from the relatives of a young Englished, and the second of the family. The Watson hen ill. She decides to educate herself and the rest of the family. The Watson hen ill. She decides to educate herself and the rest of the family. The Watson she was the second of heing a school teacher and suggests and the second of heing a school teacher and suggests moving the family note a farm, to which John Watson agrees. We are introduced the second of the second of

beside him once more, her thin gray hair falling over her shoulders,

The sick man gazed into her face. and a look of understanding came

"Ellie," he said with great effort "I did not want it at first," and with his eyes still looking into hers, as if mutely pleading with her to understand, the light faded from to understand, the light laded from them, and the last long, staggering breath went out. Then fell silence, that never-ending silence, and quite perceptibly the colour went in patch-es from his face.

Dr. Clay gently touched Mrs. Cavers's arm.

"Yes, Doctor, I know, he's dead." talked like people do in their

sleep. "I did my best, Will," she said, "I did my best, Will," she said, as she smoothed his thick black hair. "I tried my hardest to save you, and I always thought I would win but they've beat me. Will. They were too strong for me, and I'm sorry!" She bent down and tenderly kissed his forehead, damp now with the dews of death.

There was not a lear stirring on the trees. Every bird in the valley vas still. Only the gentle lapping of the Souris over the fallen tree in the urrent below them came to their

Sandy Braden's face was as white



A Stately Farm Home in an All-year Setting

Evergreens, pine or spruce, can be used to much better advantage that many of us aupone in arranging the "setting" of a country home. Bergreens are attractive the year round and give the farm home a very coy appearance in winer when broad leaf trees are bare of foliage.

all I have with me to-day . . . I hope it is enough. I know Mr. Cavers would not like to leave a debt this.

Mechanically Sandy Braden took Mechanically Sandy Braden took the money, then dropping it as if it burned him, he turned away and went slowly up the road that he had come, reeling unsteadily. A three-seated democrat, filled with drunken men,

Sandy Braden's face was as white as his shirt bosom as he stood looking at Bill's quiet face.

A cheer from the lacrosse grounds came like a voice from another world; the world is and pleasure and action.

Mrs Cavers, roused at the sound stood up and addressed the hordistood up and add

and begging her to understand.

Just as the democrat passed the poplars its occupants burst into

audlin song;
'Who's the best man in this town?
Sandy Braden, Sandy Braden.
Who's the best man in this town?
Sandy Braden, Sandy Braden.''
And then it was that Sandy Braden.

And then it was that Sandy Braden fell prone upon the ground and bur-ied his face in the cool, green grass, crying: "God be merciful to me, a crying:

When the victorious lacrosse team When the victorious lacrosse team came down the street, they were followed by a madly cheering throng. They went straight to the hotel, where, by the courtesy of the proprietor, they had always been gives rooms in which to dress.

Bob Steele met them at the office door, all smiles and congratulations, in spite of a badly blackened eye. Come on in, boys!" he called. "It's my treat, Walk right in."

"Come on in, boys!" he called.
"It's my treat. Walk right in'
Most of the boys needed no second
invitation. Bud Perkins hesitated.
His father was just behind him.
"Take a little Schlitz, Buddie. That
won't hurt you," he said

Bud went in with the others. Every one was in the gayest humour. The bar-tender called in the porter to help bar-tender called in the porter to helo him to serve the crowd. The glasses were being filled, when a sudden hush fell on the bar-room, for Sandy Braden, with a face as ghastly as the one he had just left on the river-bank, came in the back door. He raised his hand with a gesture

of authority.

"Don't drink it, boys!" he said.
"It has killed one man to-day, Don't

Even the bar-tender turned pale to conduct services in their school house. All attend the Pioneer's plenic. Sanday libraden, hotel keeper, promises Pearl not to give Bill Cavers liquor, but his bartender does. Bill is found almost dead.

SANDY BRADEN put up his hand motioned toward Bill's dead face. Cavers's death. The crowd fell away moved his lips and she knell when the same cost a lot."

Should be supported to the property of the provided the provided the same silver. The sandy Braden and the barbeide him none more, her thin gray.

Should be supported to the provided the pr

> "How much have you in the business here, Bob?" he asked in a per-fectly controlled voice.

Who see your cherished ones go forth And come not back thro' wears

VASTE There is a place—there is a shore From which they shall go out no

Kate Tucker Goode When sympathetic neighbours came to stay with Mrs. Cavers that night, and "sit up" with the dead man, she and "sit up" with the dead man, she gently refused their kind offer. "It is kind of you, dear friends," she said, "but I would rather stay alone to-night. It is the last thing I can do for him, and I shall not be lonely. I've sat here plenty of nights waiting for him, not knowing how he wo come home—often afraid he work be frozen to death or kicked by the be frozen to death or kicked by 6.7 horses—but to-night he is safe from all that, and I am not worrying about him at all. I've got him all to myself, now, and I want to sit here with him, just him and me. Take with him, just him and me. Take Libby Anne with you, Martha. 1 an thinking of a sweet verse that seems to suit me now: "They shall go out no more." That's my comfort now: he is safe from so many things." The next day was the funeral, a

The next day was the funeral, a cloudless day of glittering sunshine and bright blue sky. The neighbours came for miles; for Bill's death and the closing of the bar had made a profound impression.

"I wonder will Sandy Braden

"I wonder will Sandy Braden come," Thomas Perkins said, as he tioned his horse to a seeder in the yard, "Bill was a good customer of his, and I wouldn't be surprised if Sandy

"You're a good guesser, Thomas," another man said, "for here he

"Sandy'll open up again, I think," said George Steadman, "in a few days, when he gets over this a little. He's foolish if 'e doesn't, with the busy time just startin', and money beginnin' to move."

beginnin' to move."
"Well, I don't know," said Sam
Motherwell. "From what I hear.
Sandy says he's got his medicine,
and won't take chances on gettine
any more. It'll be a good thing for
the town if he has closed for keeps.
Sandy has made thousands of doilowell. "It'll bar," Steadman said, in
his most generous tone, "If don't, he,
is most generous tone, "If don't, he,

"Well." George Steadman said, in his most generous tone. "I don't be grudge it to him. Sandy's a decent fellow, and he certainly never made it out of me or mine. He's a fool if he closes up now, but if he does some one else will open up. I believe a bar is a help to the town all right!" "It hasn't been much of a hel-here," Thomas Perkins said, waving his hand at the untide barnvard.

here, Thomas Perkins said, waving his hand at the untidy barnyard. "Oh, well, this is an exception. There's always some man like Bill that don't know when to quit. This business here is pretty rough on me though," Mr. Steadman said, in a truly grieved tone; "losin" my tentruly grieved tone; "losin' my ten-ant just before harvest; but I blame nobody but Bill himself. He hasn't

nonody but Bill himself. He hasn't used me square, you all know that." "Stop, George, stop!" The broad Scotch voice of Roderick Ray's voice had not been heard before in the con-Fecily controlled vuice.

The bartender told him.
He took a cheque-book from his pocket and hastily made out a cheque.
"Now, go," he said, as he gave it to him. "I will not be needing a man in here any more."
He took the keys from his pocket and locked the back door. Then coming out into the office, where there were a few stragglers lounging in the wear after strangelers lounging in the wear after the wear after strangelers lounging in the wear after the wear a

The I ******

Tanuary

Our Secret

For as he There is n in value wit read our own once learned understand h obtained i of how much from those a all, governed how much love and di as they are. in our heart rect our thou and to an ex ever be able clearly did the Bible reagain empha necessary it the inner thi words of Solo our hearts w of them are

erbs 4.23.) Who that the impulses often stood o and felt like and felt like of the proph is deceitful a perately wick (Jeremiah 17 Once, howe ful nature of ing true spentering into

for it is his from which h lives on to d let him. Inst

let him. Inst

bravely and good fight of ing the assur resist Satan One of the while we are cupation of he shapes our our secret s us to pray for God's will the however, Sats never deceive and through revealed to l ture of the prayers and are sinful had ceive not, be ye may const

(James 4.3.) Often wher unable to dec unable to dec worthy petit we are in p things and the ently. All ma creep into of thoughts of 6 those people ly reproved w saying: This oreth me wi

> There is or the words of God, saying and know my the be any wicke me in the w 139.23-24.) well pleasing

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The Upward Look

Our Secret Thoughts the Test For as he thinketh in his heart so is he.—Proverbs 23.7.

is he.—Proverbs 23.7.

There is no wisdom that compares in value with that of being able to read our own thoughts. He who has once learned through God to read and understand his own heart has a power to read the motives of others that can be obtained in no other way. In spite of how much we may think we distributed by the same impulses of a compared by the same impulses of them are the issues of life. (Proverbs 4.23.)

erbs 4.23.)
Who that has ever tried to guard
the impulses of the heart has not
often stood oghast at the things that
have therein been revealed to him
and felt like crying out in the words
of the prophet Jeremiah, "The heart
is deceifful above all things, and desperately wicked; who can know it?"
(Accomics) 2.25

(Jeremiah 17.9.) ideremiah 17.9.)
Once, however, we discover the sinful nature of our hearts, we are making true spiritual growth. We are
entering into close grips with Satan,
for it is his favorite abding place,
from which he would gladly guide our
lives on to destruction would we but
lot him. Instead of becoming alarmed
at our discoveries we were freezhere. lives on to destruction would we but the him. Instead of becoming alarmed at our discoveries we must face them bravely and steadily and fight the good fight of faith, always remember-ing the assurance that if we will but resist Satan he will flee from us. (James 4.7.)

One of the awful things about Satan is his power to deceive us even while we are in the attitude and ocwhile we are in the attitude and oc-cupation of prayer. Only too often he shapes our petitions by playing on our secret selfish desires and leads us to pray for things that it is not God's will that we should have. While, however, Satan often fools us, he can however, Satan often fools us, he can never deceive God. God sees through and through us and Satan ever stands revealed to Him. He knows the na-ture of the motives that prompt our prayers and in the case of those that are sinful has said: "Ye ask and re-ceive not, because ye ask amiss, that ye may consume it upon your lusts. (James 4.3.)

ye may consume it upon your lusts.

(James 4.3.)

Often who Satan finds that he is

Often who Satan finds that he is

Often who Satan finds that he is

Often who Satan in the framing un
worthy petitions, he leads us while

we are in prayer to think of other

things and thus to treat God irrever
ently. All manner of worldly thoughts

creep into our minds and crowd out

thoughts of God. Then we become like

those people whom Christ so severy

lower by the said: "Ye hypo
grites, well did Esias prophecy of you

said. The said of the said is the said of the said is

and the said is the said in the said is the

15.7.8.)
There is only one way in which we can ever learn to read our hearts. In the words of David we must ery unto God, saying: "Search me, O God, and know my thoughts: And see if there be any wicked way in me, and lead me in the way everlasting." (Paslin 193.29-24.) in 16.04. Sight and one which He delights to answer. Let us

utter it often and earnestly and God will grant us our desires. He will do so in exact proportion to the strength and sincerity of our petition.—I.H.N. He will do

Things Worth Knowing

When oilcloth is dull and shows signs of wear it will be greatly im-proved by a thin coat of varnish.

If your iron sticks, rub it on brown paper that has been previously rub-

you want it to have a really good small dish of it for the cheese course polish,

Select lamp wicks which are soft and loosely woven. Soak them in yinggar, and dry in a cool oven before using.

When boiling rice add lemon juice to the water to make the grains white, and prevent them sticking to-

If your rions sticks, rub it on brown paper that has been previously rub, bed with yellow soap.

Your starch will not stick of you stir it with a wax candle directly it is made.

Where blacking a kitchen range mix the blacking a kitchen range mix the blacked with vinegar, if makes a pretter dish. Serve a list the set of the sails, and not the gales, which decides the way to go, but the sails of the send previously rub, which decides the way to go, which decides the way of fate, as we voyage along through life; imakes a pretter dish. Serve a list the set of the sails, and not the gales, which decides the way to go, whi

(17)

Will of the Soul

"One ship drives east, and another work

With the self-same winds that blow; 'Tis the set of the sails.



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offer? Why should I go to all this expense and trouble just so you can have these free concerts? Well, I'll tell you. I am tremendously proud of this new instrument. When you get it in your town I knew everybody will say that nothing like it has knew everybody will say that nothing like it has some one—if not you then somebody else, will want to huy one of these new strick Edisons (expectally as they are being effects of our at the used as handing a strict that the same of the same strict when they are the same than the same that they are being effects or at the used as handing as 22.00 a month.) Perhaps you yourself will be glad to keep this outfit. But even it nobody buys I'lb eghed argoory that I sent you the new Edison quickly its wonderful superiority.



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butter, this year?"

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You know, I have won first prize for

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Acetylene Light for the Farm

J. H. Lamb Sincoc Co., Ont.

A lighting system for the farm approximating the equal of city lighting
proximating the had from an acetylene planey be had from an acetylene planey be the form many of my
readers will scent designer. With a
good machine and it properly installgood machine and it properly installare than real. ary than roal

Acetylene lighting, once the plant is Acetylene lighting, once the plant is installed, is comparatively cheap. It has the advantage over oil lighting of giving much more light and better light, and then the work of cleaning and filling oil lamps is made a thing

ABOUT THE GENERATOR When about to install an acetylene generator one should make certain of

generator one should make certain of the following points: (1) That there is no possibility whatever of the existence of an ex-plorive mixture in the generator. (2) The generator must ensure cool generation.

(3) The construction must be tight and the material heavy enough to

and the material heavy enough to resist rapid deterioration.

(4) It should be simple in construc-tion so as to be readily understood and not apt to get out of order.

(5) It should be capable of being

(6) It should be capable of being recleaned and recharged without loss of gas into the room.
(6) There should be a suitable indicator to show how much carbide

dicator to show how much carbide remains unused.

(7) The carbide should be com-pletely used up generating the maxi-mum amount of gas.

NATURE OF ACETYLENE

Actylene is a colorless, tasteless gas composed entirely of carlon and hydrogen. It is lighter than air, hydrogen. It is lighter than is in the much heavier than coal gas. It burns with a very white light almost like sunlight. It is easy upon the eyes,

and enables them to distinguish colors accurately. The flame, for equal candle power, produces less heat than a kerosene lamp. The combustion of acetylene deprives the air of about 2½ cubic feet of oxygen for each cubic foot burned.

Acetylene being a rich gas will form Acetylene being a rich gas will form

Acetylene being a rich gas will form a dangerous explosive mixture with air. The difficulty in securing an explosive mixture, however, which must contain between 20 and 22 per cent. of air, is so unlikely on account of the ease by which gas leaks are detected and the small amount of gas that is stored at any one time in the system that accidents by explosion are avecadingle age. exceedingly rare.

system that accidents by explosion are exceedingly rare.

NO DANGER OF ASPHYKIATION Acotylene gas will cause apphyxiation, yet not nearly so readily as coal gas, which is the gas used for illumination in the cities. No fatal results from inhabition of accidence are upon the company of the lamp days the company of the lamp days the company of the lamp many fold.

been estimated that the total cost of installing the entire equipment as is a considerable of the constant of een estimated that the total cost of

To Prevent Typhoid

To Prevent Typhoid

When one is compelled to live in a house or in a neizhbrhood where typhoid fever prevails he should make it his infallible rule to eat and drink only such foods as have been recently only such foods as have been recently construct. Sales the essaliding temperature. Sales the essaliding temperature. Sales the sales are such as the sales of the sale is a convenient weapon. If these measures were consistently practised are consistently practised a large per equal prevalent typhoid en now generally prevalent typhoid en could be prevented, especially if no could be prevented, especially if no could be recent these measures the discharges of the consistently and thoroughy disinfected before being thrown out upon the soil or into latrines.

In many cases the typhoid organism persists in the bwel discharges and in the urine for quite a number of weeks after recovery, so that great care should be taken for a month or two that these discharges are not allowed

that these discharges are not allowed to contaminate soil or water. In the

to contaminate soil or water. In the contaminate soil or water. In the styphoid are unfortunates known as typhoid are unfortunates known as typhoid are unfortunates where the counts acclimated, and these persons then are a source of constant danger to their fellows.

To bowel and kidney discharges should be added an equal volume of five per cent carbolic seid solution (poison) or five per cent solution of liquor cresol compound (United States Pharmacopenia). Soiled lines should be put at once into boiling water. Soiled hands should be washed for five minutes in mercuric chloride water (I: 1,000) colored with methylane blue to distinguish it from ordinary non-poisonous fluids and kept out of reach of children and animals. Tablets of

this character are on the market. no case should mercuric chloride solu-tion be put into metallic vessels, as it soon becomes inert. U. S. D. A.

Never Say Fail

Keep pushing-'tis wiser Than sitting aside,
And dreaming and sighing
And waiting the tide,
In life's earnest Lattle They only prevail
Who daily march onward, And never say fail.

With an eye ever open,
A tongue that's not dumb,
And a heart that will never To sorrow succumb: You'll battle and conquer

Though thousands assail How strong and how mighty Who never say fail!

The spirit of angels Is active I know. As higher and higher, In glory they go; Methinks on bright pinions From heaven they sail. cheer and encourage Who never say fail!

Ahead, then, keep pushing.
And elbow your way,
Unheeding the envious Asses that bray, All enemies quail, In might of their wisdom. Who never say fail!

In life's rosy morning, In manhood's firm pride, Let this be your motto Your footsteps to guide; In storm and in sunshine Whatever assail, We'll onward and conquer, And never say fail

Hints for the Home

Equal parts of tea and lukewarm rater is a good solution for sponging planta

A great convenience when cleaning house is a stick with a notch in the end that will lift picture cords off from hooks without so much stepping up and down.

When patching wall paper tear the edges of the piece about to be used. When pasted upon the wall a tear in paper shows less than a cut with knife or scissors

If a meal has been taken within two If a meal has been taken within two or three hours of going to bed to sleep on the left side is to give the stomach a task which is difficult in the extreme to perform.

Pillow slips should be a half inch narrower than the pillows they are to cover. This snugness in fit insures the pillows standing upright when the bed is made up.

A clean brick represents an A clean brick represents an ex-cellent makeshift stand for a flat-iron. Brick retains heat better than the perferated metal rests which are usually employed for the purpose.

issually employed for the purpose. If cooled meat is ready for the table before it is required, place in a dish an last over a pan of boiling water plac do on the ke of the range and covered with cloth.

If baby has awallowed a fish-bond and is in danger of choking use your forefinger in the form of a hook, and even at the risk of considerable pain relieve the little sufferer.

A little kerosene added to warm water when washing windows, especially outside, will remove the sticky condition often found better than alcohol, ammonis, or whiting.

condition often found better than al-cobol, ammonia, or whiting.

Try washing of the hands with a little sugar added to the soap. This greatly increases the lather and clean-sing power, and will remove dirt and chemical status in a wonderful man-

"If Wis Then Be

January 1

Some pe some pocke advantage and earn so Here is you

During the of our people iums and ca showing FA friends and no to subscribe to subscribe
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FARM AN Note.—This nity for you your church, People's Guil

GRAND THROUGH

AND PUL Between TC

POR NORTHBOUNI

to 8.30 p.m. Porcupine 4. SOUTHBOUND Toronto 7.30

The WINNIPEG / IS VIA

Books

FARM &



"If Wishes were Horses Then Beggars might Ride"



Some people wish they had some pocket money. Others take advantage of their opportunities and earn some.

Here is your opportunity to earn as much as \$30.00 or more.

much as \$30.00 or more.

During the past few years hundreds of our people have won valuable premiums and cash commissions through showing FARM AND DAIRY to their friends and neighbours and getting them to subscribe to this paper.

We want you to see one of your neighbors or one of your friends right away and get him to take Farm and Dairy this year.

Dairy this year.

We will pay you \$36 cash if you will get us 59 new subscribers to Farm and Dairy each at \$1 a year.

We will pay you \$15 cash if you get us 25 new subscribers each at only \$1

a year.

Why not take a few days off right now and help us introduce Farm and Dairy amongst your friends and neighbors? You will do them a right good turn by bringing Farm and Dairy to their notice. And you will make good

their notice. And you pay. We will give you a very liberal cash commission on each new subscriber you get should you not be able to get the %. Therefore you cannot lose.

Now is your slack time. Here is your opportunity, start in right away to get new subscribers for us.

FARM AND DAIRY PETERBORO

Note.—This is an excellent oppor nity for you to make talent money your church, Sunday school or Yot People's Guild.

off ng

ife

GRAND TRUNK RAILWAY

THROUGH TRAIN SERVICE AND PULLMAN SLEEPERS

Between TORONTO and PORCUPINE

NORTHBOUND—First train leaves Toron-to 8.30 p.m. Dec. 2nd, arriving South Porcupine 4.30 p.m. following afternoon.

SOUTHBOUND-First train leaves South Porcupine 12.30 p.m., Dec. 3rd, arriving Toronto 7.30 a.m. following morning.

The Attractive Boute 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 Agents.

Books for Farmers

Home or House?

Home or House?

The very first requisite of a home is happiness. To make a happy home atmosphere, there must be no friction or discord. The furniture must not be too good to use, the floors too beautiful to walk upon. The divans must be couches for "epose, and if a tired body feels like lying down upon a mattressed bed in the daytime, no terror of disarranging lace covers and wonderful shams should stand in the path to rest.

path to rest.

A woman of tact and resource can
manage to make her home comfortable and keep the appetites of her
family appeased, while she allows
each member of it to find comfort
and freedom within its precints, and retains leisure for the development of her mind. It is all a matter of dis-position and executive ability—and

Parental Responsibility

The father I had known for years.
To-day for the first time I saw his
boy. It was as if a dagger had been
stuck into my heart. Terrible—terboy. It was as if a dagger had been stuck into my heart. Ferrible—terrible—terrible—bright hat, and nothing else could be said. They sat there on the wagon seat, father like son, son like father—and such a father. You have seen grouches—but, no, you never saw such a grouch as this father. Never. It was this fact that emphasised the fact.

emphasized the fact.

This man never laughs. His face is a continual advertisement to this effect. To boot, misfortune brought to him a sickness which marred his to him a sickness which marred his face. The summing up spells about as dampening an individual as one anywhere to be found. And the boy, poor lad, is the pattern of his father, result of a lifetime of association. At fourteen or fifteen he carried a load that would bow down nine out of tem strong men. It may be habitual—but them—think of what he is being defrandad

If the fathers and mothers who this could see this father and his lad, they would be very careful indeed as to what a pattern they set for their loved ones. Undoubtedly they have loved ones. Undouttedly they have read many articles covering just this particular phase of development, but often the full value of such articles can be realized only by seeing actual

The father who shows his boy The father who shows his boy how to give short weight is preparing his son, perhaps, for the wide open prison door. The mother who tells another woman before her children, "Your hat is lovely, Mary. It is wonderfully becoming. It is really beautiful. You must wear it to the ohurch pienic" and then comes into the house to say, "Say, isn't it a fright? Did you ever 'Say, isn't it a fright? "Say, im's it a fright? Did you ever see such a combination of colors? How can anyone show such taste?"—is lit-the short of a fool. Does she not know that such words and deeds either mar the characters of her oldifren — or cause them such feelings of revulsion that never again can they look upon the one who should be most dear to them with the respect they had for her

Think it over - you fathers and

mothers.

Reckon well—before you show an unlovely side to precious young souls.

Smile with the little ones. Counsels with the older ones. Always, though, play the game of life housely and squarely. Boys and girls will sometimes go wrong despite the most loving and efficient care of capable paring and efficient care of capable parents—but such cases are truly rare.

Efficient parentage, efficient children—that's the rule. Just look around.

you?
Shall it say "a stiff like his father?"
"a grafter like his father?" "a rake
like his father?"

By the Way-

Charm of manner is a far greater attraction in woman than great

beauty. beauty.

When preparing to rise from a chair, the feet should be placed firmly on the floor, one in front of the other, the body brought upward by balancing it on the balls of the feet. It is more difficult to lift the body to It is more difficult to lift the body to a standing position when the feet are placed side by side than when one foot is slightly advanced. This posi-tion prepares one for the first step in

tion prepares one for survey walking once one is up.

A cheerful manner is a particular-A cheerful manner is a particular-jy attractive one. The girl who al-ways seems happy and bright, no mat-ter how she feels, is ever a welcome guest in any gathering, for when she enters a room she brings sunshine with her. She has a pleasant word for everyone, a gracious bow and merry twinkle in her eye, a good good merry twinkle in her eye, a good story to tell, something bright to say, and with it all she is natural. You must like her, for she has that subtle attraction so hard to describe, but which you call charm of manner.

THE COOK'S CORNER

sto., gladly answered upon request, to the Household Editor, Farm and Dairy.

Peterboro, Oss.

From Left Overs

Fish is to be bought in alices or chunks for boiling, rather than as a whole fish, which has a head and tail to be removed. The left-overs may be creamed and baked into salad with mayonnaise

mayonnaise.

Slices of stale cake may be made into puddings, or dried, rolled and used as macarcon crumbs would be, in custards and creams. When only one small portion of anything is left, one small portion of anything is left, such as an orange or an apple or small dish of prunes, these need not be wasted. The orange may be sliced evenly and laid on lettuce for a salad; eventy and taid on fecture for a salad; the one apple transformed into a glass of jelly; the prunes either made into souffle, for dessert, or into prune jel-ly with gelatin. Even two spoonfuls of apple-sauce need not be wasted, but with custard it may form a pud-

Deep fruit tart, baked with only apples are plenty and a little left-

Deep fruit tart, baked with only apples are plenty and a little left-over crust makes tartlets for a second day. Cottage pudding may be varied by having chocolate added, or fruit baked in the butter. Bread pudding may be served in individual with the pudding of the pudding of the pudding of the pudding of the pudding, if firm, may be aliced old and fried, to be eaten with jelly. In general, all sorts of left-over may be saved. The white fat from the top of the soup kettle is good for frying potatoes. Browned lard may be clarified by baking it with water and then straining it through cheese-cloth. Half silees of bread may be toasted and put under stews; crusta may be made into pudding or rolled and sifted for crumbs. Coreals may be recooked with chopped figs or dates. Boiled rice may be made into proquettee or fried; or it may be mix-Books for Farmers

Do you want to secure a good book on Dairring, Stock Hasing, Poultry Raising, How and Dairring, Stock Hasing, Poultry Raising, How an upply you with the best farming? We can upply you with the best har you can lead the child-plant aright or wrong, book catalogue. It is free.

Book Department

The Sewing Room

"It is his father?" a rake this his father?" a rake this his father?"

Upon the answer "the world" depends.

Let us hope that the answer will be "Kaman—like his father."—Fred G.

Kaesamaan, in "Naultilus."



WITH OR WI

rial.
This pattern

cut in sizes for chil-dren of 2, 4 and 6 years of age.

gart of age.

GIRL'S DRESS, 7271
WITHOUT SEPARATE GUIMPE
The dress that can
be worn either with
or with out a
guimpe is available
at all eeason. The
way and has an addefinition of the control of the
order of the control of the
order of the control of the
order of and simple.

For the 8 year size will be required 31-2 yards of material 27, 25-8 yards 36, 13-4 yards 44 inches wide with 3-8 yard 27 for with 5-8 yard 27 for the trimming por-tion. 1 yard 36 and 7-8 yard of all-over lace 18 inches wide for the guimpe.

This pattern is out BLOUSE WITH FRONT CLOSING, 7277



NT CLOSING, 7277

Here is a blouse that shows the very latest features of the season. It is finished with a big revers on the right front. The round collar is cut to form a very deep back and it can be worn over or under the skirt. der the skirt der the skirt.
For the medium size will be required 31-2 yards of material 27, 15-8 yards 36 or 44 inches wide with 7-8 yard 21 and order.

inches wide for collar and cuffs.

This pattern is out in eises for a 34, 36, 38, 40, 42 and 44 inch bust measure.

35.40, 4% Shot 4 HORD USE MEGRIFICA.

SEMI-PRINCESSE DRESS FOR MISSES
AND SMALL WOMEN, 727
WITH HIGH NECK AND EVERS, OR V.
SHAPED NECK AND COLLAR THAT
CAN BE MADE ROUND OR SQUARS,
WITH LONG OR ELBOW SLEEVES.



- princes 'rocks are exceedingly smart and well liked this season and this one will be found excellent for small women as well as women as well as for young girls. It can be made in two quite different ways, as shown on the figure and as shown in the small view. For the 16 year size will be required 55-8 yards of material 70.

Here is the Engine For You!

STICKNEY Gasoline Engine

and you'll have no doubt about which engine you should buy. The STICK-NEY does the best work, and gives the least trouble, because of its SIMPLIC-ITY. Write for our book to-day.

Ontario Wind Engine & Pump Company, Ltd. Winnipeg TORONTO Calgary



SYNOPSIS OF CANADIAN NORTH-WEST AND REGULATIONS

MEST AND REGULATIONS

ANY PERSON who is the sole bread of family, or any male over 18 years old a family, or any male over 18 years old a family, or any male over 18 years old the sole of the sole o

of intending how a single review or a sister of intending how a single review of the control of

cultivate fifty acres extra.

A homestender who has exhausted his homestead right and cannot obtain a premption, may enter for a purchase abomestead in certain districts. Price \$3.00 per acre. Duties—Must reside air months of the contract of the contract

Deputy of the Minister of the Interior.

N. B.—Unauthorized publication of this advertisement will not be paid jer.



BREEDERS ONE INCH SPACE

FARM AND DAIRY, PETERBORO, ONT

PRINCE EDWARD ISLAND

RINGS CO., P.E.I.

CARDIGAN BRIDGE, Jan. 5.—Weather has turned colder with little smow not enough to make stelepart the result of the colder with a stelepart of the result of the care closed to navigation. The present of the colder on held on Jan. 3rd resulted in a sweeping victory for the Conservatives. Sicck are wintering well so far. Straw is scarce. A lot of farmers are buying hay from the west end of the island at 816 a ton. Fork is moving at from 7c to 73-de ton. Fork is moving at from 7c to 73-de ton. The forms and cattle are not in grant mand owing to searcity of leed—II. P.

QUEBEC

RICHMOND CO., QUE. RICHMOND CO., QUE.

DANVILLE, Jan. 5.—The weather has been very chanceable for the last month. Half of the time we have been on wheels, with very mild weather. We have had some snow falls these last few days, making sleighing good. The teamsters are taking advantage of the good roads. All meats remain high in price. Poultry, Sec. ergs., Soi butter; 36.—M.D. B.

ONTARIO

ONTARIO

HASTINGS CO., ONT.

SIDNEY CROSSING, Jan. 2.—We have had little snow, but cold weather, which makes it hard on winter grain. Business has not revived from the depression fool lowing the holidays. Timothy hay sells for from \$15 to \$15\$; cats. \$85\$: barley, 76\$; wheat bran. \$25 a ton: middlings. \$25\$; when the property of the cold of

NORTHUMBERLAND CO., ONT. NORTHUMBERLAND CO., ONT.
CASTLETON, Jan. 5.—Snow has fallen
Farmers are getting their next summer's
wood. Stock are wintering very well,
with enough feed to put them through.
Hay and potatoes are very high.—H.M.

WATERLOO CO., ONT.

AYR. Jan. 8. We are having a severe old snap; some say it is the coldest for cars. We have little snow. Grain and years. We have little snow. Grain and feed still continue to maintain the high feed still continue to maintain the high prices, though some think it will ease off towards apring. Cattle keep firm, with a tendency to go higher, and some spirited bidding is reported for spring deliver. The Farmers' Club is making arrespondent for a short course to be held maintained to the supervision of Mr. Har the country representative—G. G. S. 8.

DURHAM CO., ONT.

DURHAM CO., ONT.

BLACKSTOCK, Jan. 8.—We have been crisying mild winter weather until the last for finding mild winter weather until the last for finding the last finding the

WELLINGTON CO., ONT.

PERGUS, Jan. 7.—The weather has been unusually mild during the month of December, but the opening the most prought the thermometer below zero We have had little snow so far; what we have is in drifts. A great quantity of

S15.—W.B.

BRUCE C6., ONT.

WIABTON, Jan. 6.—Wintry weather prevaits. There is eneugh fodder, but high prices rule. Hay, \$14; cats, \$47; peass, \$1.

Not many cattle are being fed. Corn fodder was badly frozen, so that other feed der was badly frozen, so that other feed is being used in its place. A good deal of corn chop is being fed at \$1.50 a cwt., it being cheaper than peas. All crops were light except hay. Potatoes are scarce at \$1.25 a bag.—C.S.

HOLSTEIN-FRIESIAN NEWS

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

ANNUAL MEETING OF BELLEVILLE

BREEDERS
in breeders and those especially
Belleville district will note the of the Belleville district will note the announcement in another column in this issue of the annual meeting of the Belleville District Holstein Riveders' Club to be held at Belleville Jan. 35, 1952. The belleville District with the Archive Column noon, the bear of the Archive Column evening at 8 o'clock. All admires of Holstein cattle are invited to be present and will be sure of an interesting and profatable time.

THE ANNUAL MEETING

THE ANNUAL MEETING
The 29th annual meeting of the Holstein-Priesian Association of Ganada will
be held in Room No. 1. fourth floor of
the Temple building corner Richmond
and Bay streets. Town on Thursday,
February 8th. 192, at 9.50 a.m. The excutive committee will meet on Tuesday,
February 6th, at 7.30 p.m., in the Iroquois
hotal

F .E. Came gives notice that he will move an amendment to Article 6. Sec. 5, to provide for the registration of a prefix name for the exclusive use of the

spilicant. J. Haley gives notice of an amendment to Article 6, Sec. 5, that the fees for registration fees for members be \$2 for under off pales for members be \$2 for under off pales for more one year; and for non-members \$4 for under one year, and \$8 for over one year.

The annual fee for 1912 is due Febru

Purchase a single ticket and secure a Standard Convention Certificate from the railway agent.—G. W. Clemons, Secre-

MORE ABOUT NORTH TORONTO HOLSTEINS

HOLSTEINS

Continued from last week)
Four cattle from Mr. Geo. McKennie's
herd at Thornfull will be in the sale. One
of these is a buil. "Edeemont Prince," a
two-vear-old out of an R. O.P. heifer and
tare and the sale of the control of the control
tario Agricultural Control
tario Agricultural
tario Theorem Control
tario Control
ta

Towl was marketed just before the holiday season. Prices at present are: Chickistable.

Correspondence Invited

Correspond lot, as we have them in Mr. McAensle is stable, the cowe which Mr. McKensle is stable, the cowe which Mr. McKensle is offering is May De Kol. a cow somewhat underwisted, but the stable of the stable

Mr. C. James Cattle

Mr. C. James of Langstaff is placing
six in the sake, five females and a young
six in the sake, five females and a young
bull call the sake five females and a young
bull call the sake five females and a young
loss libe milk as a two-garage
other is a heifer out of a cow with a proord of 11,679 lbs as a three-year-old. The
ord of 11,679 lbs as a three-year-old. The
good cow of in the stable, being a grand a
young of the stable, being a grand
and a splendid, level sudder of plentenus
and a splendid, level sudder of plentenus

capacity.

Three of these young cows to be sold at the sale are in cult to Prince Galantiy Mercena, a bull which Mr. Innee bought recently from M. L. Harber bought recently from Mr. C. W. Chemor's herd by Prince Posch Pietertje C. the capable stranger. The dam of this calf is by Prince Posch Pietertje C. the capable stranger. The dam of this calf is post from the prince of the prince of

THE HOLSTEIN WINS ON MERIT

THE HOLSTEIN WINS ON MERIT

Malcolm H. Gardiner, Delevan, Wis,
As most of you know, the time was
As most of you know, the time was
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prompted by a spirit of malice and jestoney, I obline four progress with multitudinous difficult our progress with multitudinous difficult our progress with multitudinous difficult on the common to the common to the
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from the milk.

Our advanced official registry system, and the marvelous seven, 30, 60, 100-day and yearly yields, together with frequent public demonstrations, have long since silenced such defamers, and few there are today so biased in their opinion, so to dare to utter in the presence of intelligence, a to dure to utter in the presence of intelligence, as to utter in the presence of intelligence, a single stiement relative to comparisons. It has long since become a matter of public knowledge that the Holstein cow has demonstrated, by her repeated and multitudinous exhibitions, that she stands peerless and alone as to both quality and quantity in the production of milk, as to production of butter fat, and as to persistency in that production and as to persistency in that production. and as to persistency in that production. Moreover, the knowledge has rapidly spread, till now it is difficult to find, in any community, such a degree of igno rance as precludes the existence of a quite general concevtion that the product of the Holstein cow is not only the most prodictions, but that it is the most prodictions, but that it is the most productions, but that it is the most production. The production is the production of the production antists, physicians and students have had forced upon them evidences so conclusive that it is difficult to find many manning this body of educated people who are the students of the students

There is a growing demand for the Jersey as a family cow. The dairymen at large, especially the makers of a choice article of butter, are more fully realising



STABLE YOUR CATTLE The Superior Way

IT WILL BE DOLLARS IN HIS POCKET

Now is the time to lay your plans and get all the information you can, and not be saying when your barn is completed (I WISH I HAD DONE SO AND SO.) Drop us a card to-day and YOUR

THE SUPERIOR BARN EQUIPMENT CO., FERCUS, CAN.

...... MAR

January 18

.......... healthy, having usual duliness t season. The de-all records for l ness, but most trade in spring Drovers at the

Op

HOL

ATTI HOLSTEI All lovers of H Bellev

Holstein at Bellevill

Our Motto: A GRE A. D. FOSTER. C. A President Local

RE for the next 30 c



hrada. right prices. Also pure bred Schuiling Posch R. B. BROCK.



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MARKET REVIEW AND FORECAST



n erjoyable.

Rapidly growing oftles demand more farm produce.

Def, pets, posity, sheep as dairy let the falls, control of the farmer far

HOLSTEINS ATTENTION!

HOLSTEIN BREEDERS All lovers of Holstein Friesian Cattle are invited to be present at the Annua Meeting of

Belleville District Holstein Breeders Club at Belleville, Jan. 31, 1912

Annual Meeting at 1 p. m. Banquet in the evening at 8 o'clock Speakers From a Distance Our Motto: A GREAT Breed in a GREAT District

A. D. FOSTER. C. A. BRETHEN, F. R. MALLORY,
President Vice-Pres. Score
Local Papers please copy

We Have RECORD OF MERIT and RECORD OF PERFORM-ANCE Reg. Molsteins few days old up to fit for safe from a scorptional lot and dirt cheap. Cut rates

Toronto, Monday, January 15.—Trade is healthy, having recovered from the unusual diliness that followed the holidary all records for length and decreased business, but most firms now report a fair trade in spring goods.

Drovers at the Union stock yards are having a lively time in their fight with what they choose to call the "trust."

Where Where Where Where the state of the decreased business in the commission merchant, the commission merchant, the commission merchant, the commission merchant, the commission merchant with the drover, and then the commission for the farmer and claim recuperation for the farmer and claim which have considered and the commission merchant the drovers would not be a farmer and claim recuperation for the farmer and

so far no settlement has been reached on either side.

Farm produce has had an unusually sollive week. Export demand has been sollive week. Export demand has been almost all lines.

Mand still hose have advanced in almost all lines.

WHEAT and the sollines were almost all lines where a new record price for No. 1 hard of \$1.1012. A splendid export demand and unfavorable eroor reports from the southand the strong of the sollines when the sollines were not sold to the west in large quantities through United States ports and over United States railroads. Quotations are included to the west in large quantities through United States ports and over United States railroads. Quotations are shown as the solling of the solling

frains are Manger all along the line. Maiting barley in particular shows new strength. Advances are also noted in western oats, rye, buckwheat and corn. The export demand is again accountable. Maiting barley is quoted at 86c to 87c; 68c to 78c for feed. Quotations on oats are: C. W. No. 2, 48c; No. 3, 45 lec; Ontario 18. 2, 3 lec; at country points, 48c and 18. 2, 3 lec; Ontario 18. 2, 3 lec; Ontario 18. 3 le

81.15 buckwheat, file to 62c; rye, 96c to 97c.
The market at Montreal also is strong, and shipments to the 04d Country have been liberal. Quotations are as follows: C. W. No. 2, 47.2c; local white No. 2, 46c; No. 3, 46c; No. 4, 46c; corn, 47.15c; peas, 81.7b to 81.80; barley, mailing, 96c to 98c; feed, 57c to 53c; buckwheat, 71c to

Young bulls for sale from a first of the sale of the s

Supplies of hay at Montreal have been more than sufficient to meet all demands, of freight space on the steamers. Nominal quotations are: No. 1, 18 to 915.69, No. 2, 815.90 to 915. No. 2, 915. No. 2

eties are being taken at \$1.15 to \$1.25 a bar.

Heans are steady at \$2.55 to \$2.35 for Heans are steady at \$2.50 to \$2.55 for hand picked.

FRUIT AND VEGSTABLES

The local market for apples is steady. Quotations are: Greenings No. 1, \$3.25 a barrel; No. 2, \$2.75; Ballevina, No. 2, \$2.55; Ballevi to 60e a dozen

dozen.
EGGS AND POULTRY The market for eggs remains firm to a little higher. Dealers are quoting 35c to 36c a dozen for strictly new laid and 25c for fresh eggs. The retail price is 50c to Montreal market, and there is a general scarcity of supplies in splic of the American eggs that have been imported. No. 1 stock is selling at 26c; selects are Quotations on dressed boultry are as

simprison eggs thit have been imported. No. 1 stock is selling at 28c selects are worth 33c and new laid 40c. Quotations on dressed poultry are as quotations on dressed poultry are as quotations on dressed poultry are as the control of the contro

the cattle market.

An average of quotations is about as follows: Export cattle, choice, 85.50 to 85.90; medium, 85 to 85.50; butcher cattle, choice, 85.50 to 85.90; medium, 85 to 85.50; poof, 85.50; com. to med. 84.75 to 85.75; butchers' owns, choice, 85 to 85.46 and down to 83. Freeders are quoted at 83 to 85.32 and stockers at 83 to 84.75; canners, 81.50

and stockers at \$8 to \$4.75; canners, \$8.50

The market for mitthe owns has failer to \$8.75

The market for mitthe owns has failer of the state of t

AYRSHIRES

(21)

RAVENSDALE AYRSHIRES



Special offering of splendid lot of splendid lot of the splendid l

C.T.R.ST. ARMAND PHILIPSBURG

CITY VIEW AYRSHIRES.

R. O. P. cows and two-yearold heifers for sale; one yearling bull and a fine lot of 1911 bull calves. Prices reasonable. Write or phone. JAMES BEGG, R. R. No. I. St. Thomas.

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.

D D NESS HOWICK OUR

THE SPRINGRAMK HERD OF AVRSHIRES INE STRIMUDANN RENU UF ATNOMINES Contain more World's Champion milk and butter producers than any other herd in America. A few choice buil calves from record breaking dams for sale at reason-able prices. Address

A. S. TURNER & SON,
Ryckman's Corners, Ont.

3 miles south of Hamilton.

Ayrshires

World's Champion herd for milk and production. Some young buils and built calves, all from E.O.P. cows for sale. A grandson of Primrose of Tanglewyld in the lot. Address WOODDISSE BROS., Tanglewyld Farm ROTHSAY, ONTABIO

CHOICE AYRSIHRES
FOR QUICK BALE
One bull II monthe old, one 9 months
old, two Feb bull calvee-grand, large
one from R.O.P. cows. A few choice
females, big producers, good teats and
specialty. Priese reasonable considering
quality. Write or come and see
WILLIAM THORN, LYREDOCK, ONT.
Trout Run Stock Farm. long distance
phone in house.

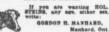
Ayrshires and Yorkshires

FOR SALE—High class Avrshires, all ages, including three bulls fit for service. Yorkshire pigs, all ages. First prise boar and sows 18 months old. Apply to HON. W. OWENS, ROBERT SINTON
PROPRIETOR MANAGER
Riverside Farm, Montebello, Que

AYRSHIRES We have on hand several thrifty young Hulls of YORKSHIRES Prices reasonable if taken young cows, helfers and helfer catves. A few young fore buying.

ALEX. HUME & CO. -Menie, Ont. Hoard's Station, G. T. R.

HOLSTEINS





Centre & Hillview Holsteins



We own the Champion of Canada Jun-ior 2-year-old giving 21.34 lbs, butter in 7 days and 35.54 in 50 days; also a 3-year-old giving 23.85 lbs, butter in 7 days and 95.67 in 30 days.

FOR SALE: Bulls up to one year old: lso females, all ages, with official back-

P. D. EDE

Oxford Centre P. O., Ont.

Long distance phone. Woodstock Station.

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 20,35 lb. yearing daughter of Henger-veld De Kol.

BROWN BROS. . . LYN, ONT

PENINSULA FARM HOLSTEINS

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

H, T. PATTERSON, ALFRED JCT., ONT

RIVERVIEW HERD

Offers bull caives from 2 to 10 mos. old SIRED BY KING ISEBELLE WALKER, whose 5 nearest dams and sister average 39.18 LBS. BUTTER IN 7 DAYS and 115 % lbs. in 30 days from dams of likewise breeding, at exceptionally low figures, to

P. J. SALLEY. LACHINE RAPIDS, QUE

FOR HOLSTEIN BULL CALVES

Bull caif, born Feb. 2 whose four near-st dams average 2f lbs. of butter in 7 ays. Another born May 16; dam first ow in Canada of her age to make 20 lbs. 6 butter in 7 days. Bull caif born Jan. 1) dam, daughter of dam of number 2 alf with official record at 2 years and 13 ays of 14.98 lbs. butter in 7 days. Also rovyear-old stock bull. David Caughell, Yarmouth Centre, Ont.

AUCTIONEER My lifetime has been devoted to Breeding Holsteins and selling Dairy Cattle. Have sold sales from the Atlantic to the Pacific. My experience is up to you.—ROBERT E. HAEGER, ALGONQUIN, ILL.

Summer Hill Holsteins

Present offering: 15 yearling helfers in calf. 10 imported helfers (some breed), 1 buil calf from a 35%-b dam 1 buil calf from a 25%-b dam 1 buil calf from a 25%-b number 4-year-old, 1 \$ 100 dam by on the farm

met when advised. Bell ph D. C. FLATT & SON HAMILTON, ONT. for lambs are up to \$7.10; even, \$4 to \$5 bucks and culls, \$4 to \$4.25; calves, \$8 to \$10, according to size and quality, \$1.00 to \$10, according to size and quality, \$7.50 to \$8.25) butched grades, \$7.50 to \$8.25) butched grades, \$1.50 to \$7.50; calves, \$6 to \$10.75; lambs, choice, \$7.50 to \$7.50; even, \$2 to \$51.00 to \$7.50; cull to fair, \$5 to \$7.55; sheep, \$2 to \$51.00 to \$57.05; cully \$7.50 to \$57.50; sheep, \$2 to \$57.05 to \$57.05; sheep, \$2 to \$57.05; sheep, \$2 to \$57.05 to \$57.05; sheep, \$2 t

MONTREAL HOG MARKET

stock quoted at \$9.75 to \$10.

EXPORT BUTTER AND. CHESE

Montreal. Saturday, Jan. 13.—There is

Montreal. Saturday, Jan. 13.—There is

still be new to say about the cheese
still be obtainable be fore the cheese
still be obtainable be fore the cheese
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stock left prices. The demand has
been chiefly for something under that
produce the cheese of the cheese
stock and the ch EXPORT BUTTER AND CHEESE

GOSSIP

GOSSIP.

The Dominion Agricultural Offices of the Potash Syndicate have decided to change the name of their firm, and from now on they will be known as the German Potash Syndicate with bead offices at 102-105 Temple Building. Toronto, Ont. The change was considered advisable on account of the length and unwieldiness of the old name.

ANNUAL MEETINGS OF LIVE STOCK

ANNUAL MEETINGS OF LIVE STOCK
Thursday, Feb. 1, 10.36 a.m., Canadian
Standard-Bred Association, Toronto,
Thursday, Feb. 1, 2 p.m., Canadian
Backney Society, Prince George, Toronto,
Backney Society, Prince George, Toronto,
King Edward Hotel, Boom F,
Toronto,

Toronto, Peb. 2. 10.30 a.m., Canadian Priday, Peb. 2. 10.30 a.m., Canadian Thoroughbred Association, King Edward Hotel, Toronto, Canadian Clydesdale Association, Boom 0, King Edward Hotel, Toronto, Canadian Clydesdale Association, Boom 0, King Edward Hotel, Toronto, Priday, Peb. 2, 8 p.m., Ontario Horse Breeders' Association, Walker House, To-matter.

ronto.
Tuesday, Feb. 6, 11 a.m., Dominion
Breeders' Association, Toronto.
Wednesday, Feb. 7, 10 a.m., Canadian
Ayrshire Breeders' Association, Prince Wednesday, Feb. 7, 9 a.m., Ontario Wednesday, Feb. 7, 9 a.m., Ontario

TEMPEST POSGH No. 5954, only 1909, sired by Cornelius Peech No. 259-24 dasaftiers in Record of Merit. Dam is Administration of the Control of Merit. Dam is 1909, sired by 1909, sired and 11.6 lbs. blutter in 7 days grand dam Hella Mercedes, 15.67 lbs. blutter in 7 days at 6 years 19 nos. Cornelius Francisco of the Control of the Contr

Maple Grove Stock Farm offers a few young cows and heifers time ported and home bred), bred to fiir Grems 19.50 lbs. to 34.75 lbs. in 7 days. Among the offering are cows with records of over 17,000 lbs. milk in the year made under ordinary farm conditions. If you want stock of this kind write M. BOLLERT, TAVISTOCK, R. R. NO. 5, ONTARIO.

Yorkshire Breeders' Association, Walker ouse, To

Wednesday, Feb. 7, 11 a.m., Ontario Berkshire Breeders' Association, Walker House, Toronto. House, Toronto.

Wednesday, Feb. 7, 1.39 p.m., Dominion
Swine Breeders' Association, Temple
Building, Toronto.

Wednesday, Feb. 7, 7.39 p.m., Dominion
Cattle Breeders' Association, Walker
House, Toronto.

Friday, Feb. 9., 9 a.m., Dominion Sheep Breeders' Association, Temple Building.

Friday, Feb. 9, 2 p.m., Ontario Sheep

More Testimony

More Testimony

"My advertisement in Farm and
Dairy
Dairy
Bully
Bu

It is only natural that all breeders of dairy stock should get such satisfactory results from their advertisements in

Farm and Dairy.

This paper is taken and read by all the leading dairy cattle breeders in this country.

These progressive men know

and appreciate good stock. They are willing to pay satis-

They are willing to pay satisfactory prices for it.

And, then, too, these readers of ours require other classes of stock. They have the money with which to buy, and they often want Horses, Sheep, and Swine of the best breeding.

When you have surplus live stock of pure breeding-if you have it now-it will pay you to sit right down and write out an advertisement and send it to us to place in these columns. costs

Remember, our space of you only 98 cents an inch!

Breeders' Association, Temple Building, Toronto.

J. W. RICHARDSON'S HOLSTEINS Editor, Farm and Dairy,—The following is a list of the animals sold from our herd at the Southern Ontario Holstein Breeders' Consignment Sale at Tillson

burg recently: Echo De Kol Grey, April 13, 1907, \$175,

Echo De Kol Grey, April 13, 1907, 8175, Munro & Lawless.
Toitilla Anggie of Riverside, April 7, 1910, 8180, Dr. English, Lady Anggie Wayne, March 16, 1910, 8250, R. Enston, Paris. Anggie Zenobia, March 17, 1910, 8190, R

Hulda Wayne Pietertje, April 20, 1910, 8175. T. F. Pattison.

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 Slohanna Colantha Gladi for sale: 150 head in herd. Come and see them

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

Sunnyside Holstein

Bull born Feb. 25rd. 1911. extra fine in-dividual of perfect type. Another born June 12, sired by Tidy Abbekerk Mercena, whose seven nearest female relatives have records averaging 27.19 pounds. For sale cheap to early buyer, FRANK M. JOHNSTON. BOSTON, ONT.

FERNDALE STOCK FARM

Clydesdale Horses and Holstein Cattle Clydesdale Morses and Holstein Cattle were never stronger than now. We have for 5 hulls from Kornelyken holls from Kornelyken Schillar, who is led two 21 lb, cous. Also Strated two 71 lb, cous. Also Strated two 71 lb, cous. Also Strated two 71 lb, cous. Court of the country o

A Great Combination

Bulls, eight months old, for sale, com-bining the blood of Pontiac Korndyke and Hengerveld De Kol, with fixed cows in their pedigree, whose mills the tains over 4 per cent fat. Those are the two greatest Holstein-Friesian bulls in America.

A. A. FAREWELL, OSHAWA, ONT.

BUYS A YOUNG BULL \$75 fit for service, sired by Inka
Sylva Beets Posch, 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 straight as a string.

Long Distance Phone

E. B. MALLORY. FRANKFORD, ONT.

High Testing Nidder Rorndyke De Lyndon Holsteins he'rd. Dam 1257 lbs. of butter in 7 daw 1257 lbs. of butter in 7 daw 1257 lbs. of butter in 7 daw 1257 lbs. of butter 7 days testing tiving in Canada. Champion 3-year-old tiving in Canada. Champion 3-year-old tiving in Canada. Champion 3-year-old butter 7 days testing tiving in Canada. Champion 3-year-old butter 1 days butter 1 d

S. LEMON, LYNDEN, ONTARIO

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 Colantha Gladi, being a grand-son of Colantha Johanna Lad and Pon-tiao Korndyke, and from a 25 lb. three-year-old dam. Also HORN DORSET SHEEP and YORK.

Address all correspondence to

H. LORNE LOGAN, Manager Brockville, Ont.

HOMESTEAD HOLSTEIN HERD

Hulda Wayne Pieterije. April 20, 1910.
Hulda Wayne Pieterije. April 20, 1910.
Hulda Wayne Pieterije. April 20, 1910.
Colantha Johanna of Riverside, Feb. 25, 1910. 830. T. P Pattison
Adeline Midred Faforit, March 33, 1910.
817. Dir English.
817 Inha Anggie of Riverside, March 30, 1911. 813. J. Gotts, Bairdeville.
818. Inha Anggie of Riverside, March 30, 1911. 813. Anggie of Riverside, March 30, 1911. 813. Anggie of Riverside, Feb. 13.
1911. 813. Rorndyk Johanna 2820. Dr. English.
1911. 835. R. Esaton.
Tortella Peoth Johanna 3820. Dr. English.
-J. W. Richardson, Caledonia, Ont.

lanuary

AVRSHIRE

c. P. Blan Ayrshires nent in Nov ment in Novanyone who fairs last fa dyrshires of entries in Much of ou been import Bros. made; mer, and the fore. Many of Parlee are the support of the supp brought dire animal, how rior because the presence is a guara; going to me selecting for dence of the of Ayrshires

Last year, animals face for aged bu three did no was very lit of the award

RECO

Name of co Name of co Pet of Hicke N. Dyment Flora of Me. A. S. Turne Kirsty 3rd of W. W. Ba May Beauty-Wm. Stews Flower of 3 A. S. Turn Lixzie Glen c Macdonald Lady Cairn-Wm. Thorn Mabel-12769— James Been James Begg White Craig Macdonald Brownie—1318

Brownie 1318 John McKee FOU Julia-23580-Julia-23580-Wooddinnee Maud of Hill-W. J. Carly Doisy-23582-Wooddissee

THE Dewdrop of 1 Wm. Stewa Ethel of Sto W. Owens, Stony Croft Alex. Hume Flavia 2nd o Dir. Experi Maud of Ste. Macdonald Madge—27700 Wooddissee Lass O'Gowri Wm. Stewa

TWO Milkmaid 7Wt
Malkmaid 7Wt
Andrew Mcl
Holchouse Fli
Wm. Thorn
Ottawa Kate
Dir. Experiv
Burnside Luc
R. R. Nesa
Annie Laurie
W. W. Bal W. W. Bal Maud 2nd of Macdonald Scottie's Whit

H. & J. Me Neidpath Ros W. W. Balls Since the fat: 17 four-y with 8.273 79 1 and 294 54 lb sociation, Hu

022224222422242222 AYRSHIRE NEWS

Farm and Dairy by the recognized exponent of the Dairy interests of Canada. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire Breeders' Association are invited to send items of interest to Ayrshire breeders for publication in this column.

AYRSHIRE PROGRESS IN MARITIME

ATRIBITED PROGRESS IN MARITIMS

C. P. Riamchard, Cotchester Co., N.S.
Arythiree are making great advancement in Nova Scotla, a feet apparent to anyone who was present at any of our fair last fail. Usually at these shows in the same show that years are making great advancement in Nova Scotla, a feet apparent to anyone who was present at any of our fair last fail. Usually at these shows in the difference of the provinces has been imported from Scotland. Retson five, made an importation this last summer, and the writer one the summer before the same provinces has been imported from Scotland. Retson five, made an importation this last summer, and the writer one the summer before the same provinces and the province and the provinces are consonical dairy product, she provinces the same province and the province of Parise and McIntyre Brunted animals, where imported animals sacred of Avabriles second to none in all Canada. It is a granter second to none in all Canada and a second the second to the state of the same provinces and the second to fore in all Canada for aged bull; and the fact that these three did not hold their relative positions throughout the circuit, shows that there was very little difference in their individuals and the fact that these three did not hold their relative positions that the writer has chosen the strength of the saw of the opinion of the provinces of the opinion of t

rank an owner of the control of the

Lha milk Lha fat

8,872.75 342.90

9.753.25

9,028

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8,821.25 313.45 362.31

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333.5

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247.38

294 62

355 19

286.84

6.896.5 279.16

8,408.75 305.28 7,728.6 284.93 976

III 307

365

330

327

295

110

302

331

320

333

165

365

365

320

328

365

RECORDS OF AYRSHIRE COWS AND HEIFERS IN R. OF P. TEST MATURE CLASS

 Name of cow
 Owner
 P.e. fat
 Lbs. milk
 Lbs. fat
 Days

 Pet of Hickory Hill—2159—
 N. Dyment, Clappion, Ont.
 4.10
 13.191.00
 542.18
 354

 Plora of Metclaffe—2637—
 A. S. Turner & Son. Byckmans Cor. Ont.
 3.59
 11.900.35
 427.34
 365

 Kirsty 3rd of Keidpath—14569—
 W. W. Ballantyne, Sitratford, Ont.
 3.26
 11.903.5
 389.54
 365

 Www. Baultantyne, Sitratford, Ont.
 3.26
 11.903.5
 389.54
 365
 P.c. fat

W. W. Ballantyae, Stratford, Ont. 3.26 11.903.5 389.54 May Beauty-12490 Wm. Stewart & Son. Menic. Ont. 3.89 9.509 372.24 Flower of Metoalfe-38045-A. 8. Turner & Son. 4.02 12siz Glen of Ste. Annes-1647- Macdonald College, Que. 4.00 9.116 365.29 Lady Cairn-41829- Wm. Thorn, Lynalgoh, Ont. 3.55 9.651.55 322.25 Mabel-1276-8

 Mabel-12768 3.56

 James Begg, St. Thomas, Ont.
 3.66

 White Craig 2nd of Auchenbrain-16717 Macdonald College, Que.
 3.55

 Brownie-13188 3.60

 John McKee, Norwich, Ont.
 4.15

Wooddissee Bros., Rothsay, Ont...... 4.24

THREE-YEAR-OLD CLASS

TWO-YEAR-OLD CLASS

foud of Hillview-23671-W. J. Carlyle, Chesterville, Ont...... 3.69

THREE_YEAR-OLD CLASS

Dewdrop of Monin—58975—
Wm. Stewart & Son, Monie, Ont. 4.10 9,783.

Ethel of Stockwell—2835—
W. Owens, Montebello, Que. 4.00 8,861.25

Stony Croft Lady Heien—5255—
Stony Croft Lady Heien—5255—
Havis 2nd of Ottawa—2159—
Plavia 2nd of Ottawa—2159—
Plavia 2nd of Ottawa—2159—
Plavia 2nd of Ste. Anne—2579—
Macdonald Ooliege, Que. 3.66 7,823.75

Wacodissee Bros., Rothsny, Ont. 4.58

Wooddissee Bros., Rothsny, Ont. 4.58

Wooddissee Bros. Rothsny, Ont. 4.58

TWO-VEAR-OLD CLASS

TWO-YEAR-OLD CLASS
Millmaid 7th-2079Andrew McRae, East Royalty, P.E.I. 4.22
Andrew McRae, East Royalty, P.E.I. 4.22
Andrew McRae, East Royalty, P.E.I. 4.22
Andrew McRae, East Royalty, P.E.I. 4.22
Wm. Thorn, Lywedoch, Ont. 4.11
Dir., Experimental Prof., Ottawa, Ont. 3.6
Dir., Experimental Prof., Ottawa, Ont. 3.6
Dir., Experimental Prof., Ottawa, Ont. 3.6
Annie Laurie 1rd-2787W. W. Ballantyne, Stratford, Ont. 3.6
Associated Str. Annee-2787Maud Ind of 8'te. Annee-2787Macdonald College, Que. 4.02
Nedoptal Rose 18th-2780W. W. Ballantyne, Stratford, Ont. 3.66
6.533.7
Nedoptal Rose 18th-2780W. W. Ballantyne, Stratford, Out. 4.45
Since the commencement of the test 16th own and heiders.

Since the commencement of the test 184 cows and helfers have registered, aum-stance of the commencement of the test 184 cows and helfers have registered, aum-fat: 17 four-year-olds with \$895.20 lbs. milt \$1,223.66 lbs. milt and \$97.82 lbs. with \$273.79 lbs. milk and \$37.82 lbs. fati. 45 two-year-olds with \$282.95 lbs. milk and \$21.84 lbs. fat.—W. F. Stephen, Scoretary, Canadian Ayrshire Breeders' As-sociation, Huntingdon, Quy

FOUR-YEAR-OLD CLASS

Tolin 97500

consolidated interests are in a position to effect economy in production and distribution.

That the Canada Cement Company are That the Canada Cement Company are working upon the idea of increasing consumption by lowering prices, rather than curtailing production and obtaining higher prices, is clearly shown by its president's report to the shareholders atted. "It is confidently expected that canada contrassed output will result in further savings in the cost of manufacture and distribution, and it of manufacture and distribution, and its confidence is the contrast of the cost of manufacture and distribution, and its confidence is the cost of manufacture and distribution, and its confidence is the cost of manufacture and distribution, and its confidence is the cost of manufacture and distribution, and its confidence is the cost of manufacture and distribution, and its cost of manufacture and distribution of manu

ductions."

We trust that the expectations of lower cost voiced by the president of the Canada Cement Company will be realized again next year, so that the company may continue its policy of giving the benefit of these reductions to its consumers—thereby enlarging the uses to which coment may be put.—November "Construction."

IMPORTATION OF HOLLAND CATTLE Chas, W. Wood, Pres. American H.-F. Assoc.

Chas, W. Wood, Pres. American H.F.
Assoc.
For several years there have been no
new importations of cattle from Holland.
I know of no other class of creatures for
the constantly exporting but have practically discrarded the infusion of new
blood. A careful study of the various
activation and the control of the contical control of the con
grows upon these Holland meadows, con
due to the production of cattle in many
ways superior to our own. But H this
were not true, if they were only equal,
my mind, is absolutely wise and cesen

tial.

By reason of the existence of the foot

was then, an infraion of new blood, to my mind, is absolutely use and essential. Frances of the existence of the foot and movin disease, importantion has been restricted for the past several years, by the United States Government. I trust this embarrasement or hindrance will exhibit the association of the best of the courages the man who would risk his fortune in importing to this country a few excellent specimens of the breed extraction. The purpose of fostering importation, throws down the bars and removes the duty. This association doubles and tribes the registration fee. One may judgment, would be the handing upon our shores to day of 2,500 of the best Hotself-Priestan cows there are in Bolland. It would not be the handing upon our shores to day of 2,500 of the best Hotself-Priestan cows there are in Bolland. It would not be the handing upon our shores to day of 2,500 of the best Hotself-Priestan cows there are in Bolland. It would not be the handing upon our shores to the country of the state of the priestant of the strength of the priestant o

(23)

ABSORBINE

Curse Strained, Pully Ankles
Lymphanettie, Poll byll, Frittle
Lymphanettie, Bill, James Bill
Lymphanettie, Bill, James Bill
Lymphanettie, Bill
Lymphanettie, Lymphanettie, Lymphanettie
Lymphanettie, Lymphanettie
Lymphane

NEWVERMIFUGE

The best and most effective remedy for Bots and other worms in horses. (Guaranteed by the Parmer' Horse Remedy Co., under the Pure Food and Drugs ed. (Co., under the Pure Food and Drugs Caranteed to kill and 10. 1917). It is guaranteed to kill and the pure and body dead in from 18 to 24 hours all pin worms and bots.

It is absolutely harmless and can be giv-en to marse in foal before the eighth month. Practical horse owners have written us Newwermidgue has removed between 509 and 800 bots and worms from a single horse. An animal whose stomach is full of worms cannot get fat or help being obstinate. Send your or-der to-day. Rewars of imitations. 6 capsules, \$1.35; 12 cappules, \$2.50

Farmers' Horse Remedy Co., Dept. 1 Denr. A.

request. We spec we cheerfully furnish upon pecialize in the following:— LIBERAL ASSORTMENT and remittances forwarded same day good-received, express and mail charges on all ship-ments paid by us, no shipment too large or too small. Canada's Largest Fur Operators "There's a Reason" Your business and cor-respondence solicited.

John Hallam - Toronto

BREEDERS' DIRECTORY

Cards under this head inseried at the rate of \$4.00 a line per year. No card accepted under two lines, nor for less than six months, or 8 insertions during twelve months.

FOR TANWORTH SWITE—Write John W. Todd. Corintb. Ont., R.P.D. No. 1.

CLYDESDALES. Imp. Stallions and Pillies. Presh Importations always on Indian Stalling S

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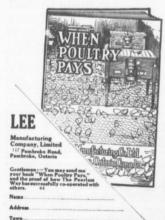


Let The Peerless Incubator Give You Large, Healthy Hatches

Let The Book
Shown Below Tell You
How The Peerless Incubator And The Peerless
Way Can Double Your
Profits

Wile Publish a handsome book which tells all about The Peerless Way. This book, with The Whene Poulity Pays, "must not be confused with The Peerless way. This book, with The Peerless Way to contrade the plans, working drawings, special bue-prints that go with The Peerless Way. But it does explain—and fully—just how you can put The Peerless Way to work for you. It gives statistics showing the condition and possibilities of Canadian poultrying; tells how the Peerless Incubator and Brooder were evolved at the Poultry Yards of Canada, Limited, and how these and other things we learned about Canadian poultrying, made our own farm the most successful of its kind in Canada, and it tells, further, the story of a poultry system that the poultry of the pou

Send Us The Coupon



Province

LET THIS INCUBATOR AND THE PEERLESS WAY MAKE POULTRY RAISING YOUR MOST PROFITABLE BRANCH OF AGRICULTURE (2) (2)

OU can do it—can do just what 20,846 other farmers and poultrymen have done and are doing in Canada to-day. You can adopt The Peerless Way, take the Peerless Incubator and Brooder and with the experience that we have spent years in acquiring and which we offer you freely, double or treble your poultry-profits. Per head of population, the United States produces three dollars of poultry products to every dollar's worth produced in Canada. That means Canada should produce \$75,000,000 worth instead of \$25,000,000 worth. Canada is an undersupplied poultry market with rising prices—for example, seven years has seen the price of eggs alone just doubled. We have overlooked how really immense some of the smaller things are. The Peerless Way affords a real way to increase poultry-profits.

Let The Peerless Way Teach You Exactly What Profitable Poultrying Really Means

THE profits in any enterprise don't come from the amount of capital invested; profits come from knowledge of what to dond, even more important—what not to do. As operators of the Poultry Yards of Canada, Limited, the largest and most successful poultry farm in the Dominion, we are prepared to teach you how to make money in poultry. You can either come to Pembroke and take a course at our poultry farm here by paying a small fee for the course—or we will teach you through the mail free all about the methods we have made so successful.

Let The Peerless Way Show You How You Can Meet The Climatic Conditions of Canada In Poultrying

VER half the failures in poultrying in Canada are due to improper methods. Incubators, brooders, poultry-houses, etc., built for warm climates, never have and never will give, in the cold winters of the Dominion, the full possible results. The Peerless Way is the only system of poultry raising that gives recognition to this important fact. The Peerless Incubator and Brooder has been specially

designed and built for Canadian use and the blue-prints and working-drawings furnished for the erection of poultry houses, are made from houses that have actually been used and proven successful on our own poultry farm at Pembroke.

Let The Peerless Way Show You About Co-operative Marketing And Higher Prices

CORE money for your poultry and eggs that's the secret of greater profits! To followers of The Peerless Way-those 20,846 poultrymen who use Peerless Incubators and Brooders and have adopted our methods, -we have taught co-operative marketing. We have shown them how to get top-notch prices for large or small quantities of poultry or eggs, and how to sell to the best advantage. Working along the lines that we have proven to be so successful, is making an increased revenue from poultry. You, too, can have the benefit of all our experience; for our Poultry Advisory Board is ready to teach you all these things. They are ready to give you freely all the experience that has taken them years of toil and exhaustive study to acquire, ready to set you in the right track and enable you to make profits right from the minute you start. But there is not room here to tell you all about it—the book will do that. Send us the coupon and we will send you, postage paid and without charge, "When Poultry Pays".

LEE Manufacturing Co., Ltd. PEMBROKE ONTARIO CANADA