

FARM AND DAIRY RURAL HOME



BETTER FARMING

AND CANADIAN B
COUNTRY LIFE

Peterboro, Ont., Feb. 3, 1916





"BRED-TO-LAY" AND TRAINED TO DRIVE.

Willing Workers



Twice a day for 365 days in a year. Labor savers and money makers too. A real boon to our busy dairymen of to-

"Simplex

You can't afford to have your hired help waste their time, or your wife waste her valuable strength, turning a

small-capacity, slow speed, hard to turn, hard to clean

A "Simplex" does away with all the hard work or separating. Large capacity, easy to turn and clean, low supply can and simplicity are features of the "Simplex."

There are other big ones too, and our catalogue will tell you all about them. Drop us a card and we will send it to you.

Tell us how many cows you milk and we will give you estimates what it will cost you to install a B-L-K.

Try our DOMINION CLEANSER for keeping your Dairy and Household Utensils, "Spick and Span"

D. Derbyshire Co., l

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, Ont., MONTREAL and QUEBEC, P.Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



The PAGE Wood Saw is Simple and Strong

Designed right, built to last, this saw is ideal for cutting poles and cordwood.

A rigidly-braced steel frame, with tilting table—a dust-proof shaft box —balance wheel and pulley inter-changeable.

It costs only \$19.00

Where else could you get such a Saw at such a price? Where can you get one at any price, so satisfactory—60 completely free from "shake" when in operation? This price includes delivery to any point in Old Ontario.



Saw Blades Supplied at these low prices

THE PAGE WIRE FENCE COMPANY

1139 KING STREET WEST

When You Write-Mention Farm and Dairy



A Happy New Year

H. Percy Blanchard, Hants Co., Ont. B Y the time the wish expressed in this title reaches Our Folks, a month will have been torn off the calendar of 1916. What have the remaining eleven months in store for

You.
The Greeks used to picture to them selves the gods assembled on high Olympis making merry at their feasts, and watching with much interest and often participating in the strifes and struggles of puny mortals down below—The heroes, the poets the Kings were to the gods like actors on a stage and the goals and the control of the co the Rings were to the goods like actions on a stage, and the greatest and noblest received Olympic praise.

Alas that man is mortal; e'en the best The noblest, the wisest to their rest Must all be laid.

Mast aff be laid.

Day after day the world begins again.
Goes onward only to return to when
First man was made.
One bright morn, e'er the sun had
left the east.

The mercy gods in rivals sat, when the ceased Music's sweet strain.
'Why now this sudden

silence?" great Jove said. whisper answers answered Shakespeare's dead."

Now all in vain.

The strings are touched, Appolo's lyre or flute, Will sing no more; The morning reed is mute. Is there no one.

Or cannot all the gods another make, Great as the Master who his harp will take?

No; there is none. At last in council the great gods de-

cide. To recreate each part, and thus di-

The Muse's King. So, all agreed, high Jove forms the head

'This man shall sing.

Of deities; vet, sing celestial praise, And how upon his throne Olympus sways

All mundane things. In triumph Jove extols his creative art. From off their seats, the exultant

gods upstrat
With waving wings.
Then bloody Mars, with strong yet
caution hands,

The arms and shoulders takes; and

now there stands The bard of war.

Behold; and listen to his song, and fear He sings of men and arms, the sword

the spear.
Of wounds and gore.
Now laughing Venus takes the breast and heart,

And shows the fruit of sweetly dexterous art. Soft notes above-

Enchanting melodies—throughout the skies resound;
The lute, the pipe, and gods' sweet voices sound

In strains of love. When silence, swift winged Mer-cury's skill Fashions the feet and legs. "This man I will."

He says at length

'Shall sing of chariots, the athlete's speed or grace, The hero's strength."

Now all the merry chord the stomach siege, And make a man the multitude to

please-

A humorous man. "Sing thou," with comic dignity they shout, "Of wine and women, of the mid-night rout;

Sing if you can."
Thus bid, the creature midst their

laughter sings; With shout and merriment the great dome rings.
Loud the gods cry,
We cannot let these men go down

to earth; Here must they stay, our ministers

of mirth; Here in the sky." Singing, amidst the gods they yet remain—

The gates wide open thrown, the

For man to hear:—
"Take thou the Season's Blessings as they fly,
Each joy and cleasure as it passes by,
A. Bright New Year."

Breeding Time Notes

N old time theory said that hens A without the attention of a male would lay as well, but not be so apt to become broody, as those mated. Our records show they will lay as well, but unmated flocks are not broody-proof by any means. The past season our unmated birds with past season our unmated birds with a few exceptions, became broody first, while two-year old hens were the last to show any signs. During incubation, eggs should be tested on the seventh and fourteenth days. At the first test the air cell should measure about a quarrer of

an inch, on the tenth day a half inch; fifteenth day, five-eights inch; nine-teenth day three-quarters inch. The measurement should be taken from the middle of the large end.

In charging an incubator with eggs they should all be of uniform size and color. The brown shells are thicker than the white shells and therefore demand different treatment. Moisture or ventilation sufficient for the one class would not do for the other. This is the cause of many

Newman says duck eggs for hatch-ing should be washed, or the oilg greasy covering on the outside shell will be removed, and they will not hatch so well. Hallock says he would rather wash the eggs before putting them into the incubator, than to use very dirty ones. Yet he believes that washing does injure them. He tried washing does injure them. He tried the experiment of putting eggs in one tray of his machine that were gathered from the bottom of the creek where the breeding, ducks bathe in. He noticed that but 20 to 25 per cent. of these eggs were fer-tile, owing to the length of time they were deposited in the water. At the same time eggs that were laid in the houses, or on land, gave 85 per cent. fertility.

A Successful Egg Circle

HE egg circle at Ormond, Ont., has now had two successful years. This circle deals in both eggs and dressed poultry. The egg trade of the past two years is summed up by the secretary, J. A. Campbell as follows:

Total Eggs dozen ... 16281 16926 Cash to Members ... \$3743.53 \$3620.64 Average price per doz. 23 21.85

Lowest price per doz. 18 18
Highest price per doz. 50 48
Number of Members 40 35
The dressed poultry trade was also
successful, 11,350 lbs. of poultry valued at \$650.82 being marketed through



Trade increases VOL. XXXX

Old C

ONE result of eggs on the Br the greatest egg the imports in 215,799,500 dozen. has seriously in plies from Gernt tria-Hungary hav those from Russ therlands, and o greatly interfered a surplus this y this has assisted extent at least ting the shortag British market. Some twelve

years ago Canad eggs in quan Great Britain, the increasing tion at home, t gradually fell rapidly, in fact, sumption incre production that the six years pr 1914 Canada eggs extensive maximum being in the fiscal y 1913, when a 13,000,000 dozen ported.

Reduction F High prices as demand, howev had the usual e duction in Cana reased so rap dicularly in the provinces, that the supply wa equal to the der intimated above, export. Had it on the part of th by the great was would have been it was early in ? than usual and threatened to se prices improved season, and wh

*An address deli Guelph, Dec. 7th, I Poultry Division,



We Welcome Practical Progressive Ideas.

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

VOL. XXXV.

they
their

down

sters

yet

the gs as

s by,

hens male of be

will are The with

oody

were

d be

cell

inch;

nine-

from

eggs

are

and

ment.

t for the many

oily, shell l not would atting

that

tried gs in were the

ducks 20 to

they t the

d in

Ont.

both

amp-

16926 620.64

21.88

95

s also valrough PETERBORO, ONT., FEBRUARY 3, 1916

No. 5

Old Country Markets are Opening to Our Poultry Products*

Canada's Opportunity---Are we in a Position to take Advantage of it ?---By W. A. Brown.

NE result of the great war has been to cause an unprecedented demand for Canadian eggs on the British market. Great Britain is the greatest egg importing country in the world, the imports in the year 1913 amounting to 215,799,900 dozen. As would be expected, the war has seriously interrupted this trade. The supplies from Germany, Belgium, France, and Austria-Hungary have been absolutely cut off, while those from Russia, Denmark, Sweden, the Netherlands, and other nearby countries have been greatly interfered with. Fortunately, Canada had

a surplus this year, and this has assisted to some extent at least in offsetting the shortage on the British market.

Some twelve or fifteen years ago Canada shipped eggs in quantities to Great Britain, but with the increasing consumption at home, this trade gradually fell off. So rapidly, in fact, did consumption increase over production that during the six years previous to 1914 Canada imported eggs extensively, the maximum being reached in the fiscal year 1912-1913, when a total of 13,000,000 dozen were imported.

Reduction Feared High prices and a brisk demand, however, have had the usual effect. Production in Canada has imvreased so rapidly, pardicularly in the western provinces, that last year the supply was almost

cqual to the deriand, while this year Canada, as intimated above, has had a surplus available for export. Had it not been for the unusual demand on the part of the British market, brought about by the great war, eag prices in Canada this year would have been somewhat lower than last. As it was early in March when prices dropped lower than usual and feed was high, many farmers threatened to sell off their stock. Fortunately, prices improved with the advent of the storage season, and while not many laying stock were season.

*An address delivered at the Provincial Winter Fair, Guelph, Dec. 7th, by W. A. Brown, B.S.A., Chief of the Poultry Division, Live Stock Branch, Ottawa. sold, it is said that for this reason many producers did not set as many eggs as they had intended.

Such developments as these in the east, combined with unusually low prices in the central west, do not make for stability in the poultry business of this country. If the industry is to develop as it should, Canadian poultrymen must take such action as is necessary to safeguard the situation.

Previously when Canada was shipping to the British market, Canadian eggs compared favorsupplying eggs of only very ordinary quality. It is evident that if the poultry industry in Canada is to be a profitable undertaking, steps must be taken to place the Canadian product on the British market in such quantities and in such condition as will demand the highest possible prices.

There are tremendous possibilities for the development of the poultry industry in Canada. Canada has all the facilities for the production of high quality eggs. The poultry industry in this country at present is a mere fraction of

what it might be if advantage were taken of our present opportunities. According to the last United States census, there were more poultry in the single state of Missouri than in the whole of the Dominion of Canada. There is no reason why this record should not be equalled and excelled by any or all of the three great middle western provinces, Manitoba, Alberta and Saskatchewan, to sav nothing of the greatly increased production possible in Eastern Canada.

The poultry industry of the western provinces is yet in its infancy. It has been amply demonstrated, however, that not only is high summer egg production possible, but if properly housed, tended, and cared for, even the more tender varieties of poultry give profitable returns in the winter time. The west

tern provinces, too, have an asset in the remarkable effect which the long summer days and the wealth of vegetable and animal life has upon the early maturity of the stock, that is denied the eastern provinces and our more southern neighbors.

All the facilities for a quantity far in excess of Canada's own requirements are here. Canada's greatness as an agricultural country must not be limited, to her own immediate requirements. Her agricultural products are her greatest asset, and she must export, must so produce, prepare, grade, market and advertise her products in such a manner as will cause them to be in brisk de-(Concluded on page 15.)



provinces, that last year Women Always Have Been, and Probably Always Will Be, the Great Poultry Raisers of Canada. the winter time. The wes-

ably in the matter of quality with current receipts from other countries. In the interval, however, on account of the strenuous competition which they had to meet, marked improvement has taken place in the quality of the Danish, Irish, Dutch, and other nearby fresh receipts, while in Canada, with such prosperous conditions at hand, it is only recently that any decided improvement has occurred.

Enter the Quality Competition

It is not in the interests of Canadian producers to compete on the British or any other of the world's markets with Russia, Austria-Hungary, Roumania, Egypt, and other foreign countries

The Principles of Artificial Incubation

A RTIFICIAL incubation is such a big subject to put into an article of this kind that one hesitates to try to cover the ground in such a short space. It is possible, however, to cover most of the essential points so that many will be helped in getting better results. for that is what most wish to accomplish regardless of the minute reasons. Artificial incubation is extremely handicapped by being practised, as a rule, under more difficult or unnatural conditions

than are usually to be found where natural means are practised. With good reason many do not do so well with the former, but those of experience see and raise so many valuable birds by it that it is an absolute necessity where large numbers are to be raised and especially if at unusual

Before one considers the actual hatching at all, it is most important to see that the incubator is given real live hatchable eggs. Some hens seem to be exceptionally successful in their hatching, but no hen could ever hatch a great many of the eggs that are put in incubators. As a usual thing, it will require eggs from more vigorous stock to get results with the incubator, because these eggs will probably be set much sooner than where biddy uses her own judgment, electing to cluck and set when instinct tells her that the time has arrived when she can safely depend on the eggs.

Best Eggs For Incubation

There is no doubt whatever that the very best chickens will be hatched and are produced when the hens laying the eggs and the males fertilizing them are in the very best condition. At the time when we notice them wanting to sing and scratch while there is a gleam of daylight left, as though life itself depended on their getting in a few more kernels to produce those vigorous eggs from which to get the strong, live chicks, is the best time to get eggs incubating. We then get the best product from them. As a matter of fact, we have sometimes seen birds producing more satisfactory eggs during December and January than a few months later, until coming again into full lay and conditions in the late spring. The time, then, to get the good product from them is when they are at their very best, whenever that may be, and if we cannot get them into first-class condition real early, no matter if the eggs are beginning to come, good sturdy chicks cannot be expected.

One of the greatest troubles seems to be that so many let the flock get along as well as it may until such time as they are needing chickens or eggs get high and it looks like a big inducement to force the birds a little. The consequence is that even if they do begin to lay abit, they do not have the hardy, robust constitution and vitality is not there to get eggs with strong germs in them. A year ahead is not too soon to seriously consider the matter of properly handling the flock; the whole season's growth will have had a remarkable bearing on the possibilities for early incubation. If the stock is of the greatest vigor and proper feeding is followed, so as not to allow the flock to become too fat or force them unduly, but keep them coming along in a



Healthy Chicks Are the First Essential to Success.

normal, vigorous way. there should be no great trouble with artificial incubation. Good commonsense must always guide, having ever in mind the conditions that exist when birds are normally breeding best and furnishing them with all that will help to duplicate as near as possible those conditions.

Fresh air, sunshine, light, good sound food proper balance, sufficient room and good clean water are the very first aids to good results with artificial

incubation Having the flock so that it is ready to supply the eggs required for hatching, proper care must be given the handling of the eggs so they will not lose any of the vitality on account of causes that might very seriously hurt their possibilites. In cold weather the eggs must be gathered at least every hour, and the sooner they can be set the better. While being saved they should be kept in a dry place, not over-warm and preferably

about 45 degrees. A week old is as long as early eggs should be kept, although fair results may be had a little older.

Having eggs from vigorous stock, by following closely the directions given with the incubator good results should be had. Certain rules hold good with all machines, but the best results are most likely to be had where the maker's instructions are followed carefully. We have machines where moisture is required after the first week continuously and others where moisture is practically not considered except under exceptional conditions. In a room where a fairly even temperature can be kept up is a good place for the incubator. We like good air in the room, and always plan to have good ventilation. The embryo in the egg needs almost as much as the hatched chicken air that will strengthen its growth from day to day.

Remove Infertile Eggs Early

The infertile eggs should be taken out as soon as they can be recognized. Every day that these remain just makes the results that much less. Even under a hen a majority of infertile eggs will seriously affect the hatch, although she seems to have the instinct to keep them to the outside of the nest. When the machine is nicely regulated it usually does not pay to keep continually making readjustments, for although a considerable variation, particularly towards the and of the hatch, may not prove serious, a steady even temperature, without much fluctuation, if at the right temperature will give by far the best results.

(Concluded on page 15.)

Turkey Rearing at Menie Stock Farm

JAS. STEWART, JR., NORTHUMBERLAND CO., ONT.

M Y father was the first in our section to go in for pure-bred turkeys. When he showed a pair of spring-hatched birds at the local fair the neighbors refused to believe that they were not at least two years old. He chose the bronze variety, and that is the kind we have raised ever

Turkeys are the most profitable kind of poultry. One year (from 12 hens) we raised 130 turkeys and sold eight settings of eggs. From the time they were a month old until the beginning of the cold weather the cost us practically nothing.

When the young turkeys arrive the pen is

cooped up and the little fellows allowed to run in and out of the coop. They are fed bread and milk for a few days and then rolled oats and skim-milk furnishes the main part of the ration until they are four or five weeks old. The feed is given moist, never sloppy. I give a little wheat as soon as they will eat it.

They get no water, unless, perhaps, the dew on the grass. Water is all right if given cold, but nothing is worse than warm water for causing stomach and liver trouble. If the water is not removed immediately after the birds have had a drink, it becomes warm and soon some of the birds have diarrhoea. It is less bother to with-



Turkeys May Be Cheaply Reared Because of Their Foraging Proclivities.

-Thote on farm of Mr. Keys, Varna, Ont.

old the water er or three years a

eem to miss it. When the young are given their li season have the ru the necks of the o They receive pract freezes. We sow and allow the turk

THE question o duction read self into two bra though in a way distinct from each yet very closely find the poultry ried on in this co production of e loubtedly, the pr the vast majority gaged in poultry k without doubt the able branch of business. The meat is and ever s secondary branch With practically a products coming farms, where pou largely as a side meat placed on t surplus cockerels lets sorted from th grown to renew lavers.

In discussing e it will be necessar it under the head different factors i.e., breeding, feed ousing and env these are importathe maximum pre tion is given to a The B

The breeding o

new as a science, scientific knowleds work. While it is to breed for the particular line, sa bers of eggs, it b plicated process w generations. It i a decided satisfac flock of birds wl phenomenal egg mind in carrying are: What percent strong, vigorous chicks hatched ar to grow to full ma cient to be able to set and rear 75 pe results are causing it is a duty of eac conditions are imp In the recently dian eggs we ha

mind in our breed

*An address at the

1916

as early

Its may

ollowing

cubator

les hold

ults are

instruc-

nachines

st week

is praceptional en tem-

for the m, and The em-

as the

as soon

at these

h less.

le eggs

gh she

to the

s nicely

ep con-

ough a

rds the

a steady

far the

ırm

to run

ead and

ats and

ration

he feed

a little

dew on

old, but

causing

is not

e had a

o with-

tion, if

old the water entirely. I have used this plan or three years and find that the birds never seem to miss it.

When the youngsters are a month old the hens are given their liberty, and for the rest of the eason have the run of the farm. I keep bells on the necks of the old birds to guard against foxes. They receive practically no care until the ground freezes. We sow a few patches of buckwheat and allow the turkeys to do the harvesting. Buck-

THE question of poultry pro-

self into two branches which,

though in a way separate and

distinct from each other, are

yet very closely linked as we

find the poultry business car-

ried on in this country. The

production of eggs is, un-

loubtedly, the prime object of

the vast majority of those en-

gaged in poultry keeping and is

vithout doubt the most profit-

able branch of the poultry

business. The production of

meat is and ever shall remain a

secondary branch of the work.

duction readily divides it-

wheat is excellent turkey feed, but we never give it after the first of January. It is too fattening a food for breeding stock. Control of the Sex

We keep one turkey cock for our 12 hens, and ve always keep a young one. I have noticed that when a young cock is mated with old hens, at least 80 per cent of the offspring will be males. Recently the demand for turkey hens has been greater than for cocks, and in future we intend to use an old male or young females, and raise more bens.

It is sometimes ticklish work to get turkeys over the first few weeks of their existence, but we have seldom had much trouble. This year we did not lose more than 14 or 15. One hen adopted the progeny of two other hens, and these, with her own, were more than she could care for and a number perished. methods keep losses at a minimum.

Factors that Affect the Production of Eggs

The Breeding of the Laying Fowl, as well as Housing and Feeding, Must be Considered.

F. N. MARCELLUS, B.S.A., POULTRY DEPT., O.A.C., GUELPH, ONT.



All Young Things Are Healthiest Out on the Open Range.

With practically all our poultry products coming from the farms, where poultry is kept largely as a side line, the only meat placed on the market is surplus cockerels and cull pullets sorted from the young stock grown to renew the flock of In discussing egg production

it will be necessary to consider it under the headings of the different factors affecting it, i.e., breeding, feeding, exercise,

housing and environment. Each and all of these are important and it is not possible to get the maximum production unless due consideration is given to all these.

The Breeding of Poultry

The breeding of poultry is old as an art but new as a science, and it is only recently that scientific knowledge has entered into this line of work. While it is a comparatively simple matter to breed for the development of birds along one particular line, say the production of large numbers of eggs, it becomes a very much more complicated process where one is breeding for future generations. It is certainly advantageous and a decided satisfaction to breed up and own a flock of birds which are capable of making phenomenal egg records; but high records are mind in carrying out the breeding operations are: What percentage of the eggs set hatch good, strong, vigorous chicks and what percentage of chicks hatched are strong and vigorous enough to grow to full maturity? It should not be sufficient to be able to hatch 50 per cent of the eggs set and rear 75 per cent of chicks hatched. Such esults are causing excessive national waste, and it is a duty of each and all of us to see that such conditions are improved.

In the recently adopted standards for Canadian eggs we have another factor to keep in mind in our breeding operations which is of very An address at the Ontario Provincial Winter Fair,

great importance. The size of eggs must be cared for and, while of less importance, is the uniformity of color in the colored varieties, which is now beginning also to call for attention. It might be mentioned here that the close confinement of birds tends to produce eggs with lighter colored shells. The standards for Canadian eggs, as recently adopted, call for an egg weighing 24 ounces or more per dozen if it is to grade in the best grades on the market. It is necessary, therefore, in order to meet these new requirements that more attention be given to the selection of the eggs which are used for hatching purposes and use only those eggs which are up to or above standard weight and which in color are good representatives for the breed laying them.

The Male Prepotent for Production

Breeding for egg production is now more fully understood than it was a few years ago, yet much remains for biologists and practical breeders to determine. This much, however, is now proven, that the male bird is largely responsible for the transmission of heavy laying qualities from parent to offspring and the influence of the female parent is secondary.

It is true that the question of meat production is of lesser importance than that of eggs, yet it must not be lost sight of. Selecting those birds for breeders which are heavily muscled along the breast or keel bone, and which carry a soft, fine textured skin on the shanks is desirable. Constitutional vigor, however, should ever receive first consideration in the selection of breeding stock; selecting only those birds which show short, broad, stout development of the head and beak, and have a clear, bright, alert eye and a well-filled face in front of the

The feeding of poultry, both in relation to kinds of foods and methods of feeding, has ever proven a topic for animated dis-We have passed cussion. through all stages of evolution in the compounding of rations from that containing a large number of different ingredients down to the more simple forms containing only a few common foods, and it is safe to say that the more simple rations are in greatest favor. The common grains which are grown on most every farm in Ontario, coupled with some form of animal or meat food, green food or succulence, shell and grit, will make an excellent ration for laying hens. It is very essential, however, that the birds, while confined to the pens dur-

ing the winter, receive animal or meat foods, preferably sour skim-milk or buttermilk and green food, such as cabbage, mangels or sprouted oats, if the maximum production is to be expected. Much might be said for and against the feeding of different kinds of mash, but results would go to prove that under average conditions and with the average feeder, the dry mash is to be preferred to the moist from the standpoints of labor and safety of feeding and in the results secured. The dry mash should be fed from a hopper and be accessible to the birds at all times.

Exercising the Flock

It is just as important to maintain good health, that birds be exercised freely as it is for other classes of stock. It has, however, in this case another value than that mentioned above. It has been found that where birds are compelled to exercise freely production is brought to a higher point, and, further, in the case of breeding stock, the value of exercise cannot be too strongly emphasised. There are various ways of inducing birds to exercise, but the simplest and most effective is produced by feeding all whole grain, except the last feed in the evening, in a deep litter of straw, shavings or leaves on the floor of the pen. This forces the birds to work for a good portion of their feed. It might also be stated that the close confinement of the birds to pens with small runs from early fall to late (Concluded on page 9.)

Poultry Pointers: Mostly from Our Folks

Facts About Chick Feeding

THE yolk of the egg which is absorbed by the young chicks just before emerging from the shell supplies the necessary food during the first 48 hours of the life of the chick. The first requirement of the young chick is grit to aid in digestion and pure water. Small grains of sharp sand or pieces of egg shell are splendid for this purpose. Hard boiled eggs, thoroughly mixed with breadcrumbs moistened in milk, can be used the third and fourth days. Fine oatmeal can be gradually added to this mixture and fed sparingly at periods two or three hours apart.

A simple ration for chicks a week or more old may be made of two parts by weight of finely cracked corn, one part of broken wheat, one part of oatmeal, and one part of meat scraps. Whole wheat can be substituted when the chicks arrive at six weeks of age. Grit should be supplied at all times as well as green food. This ration ought to be fed about five times a day in a fine litter of straw or hay, thus encouraging the chicks to scratch for the feed.

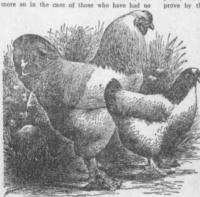
The water should be changed frequently and the food ought never to be allowed in any quantity greater than the chicks can eat up clean. Infertile eggs from the nests or incubator can be utilized. Finely cut grass, alfalfa, clover, or oats may be used as green food. Successful chick feeding is based on paying strict attention to details, a well balanced ration, and proper sanitation.

Starting a Poultry Farm

A POULTRY farm built upon a secure foundation is sure to be successful if afterwards properly managed. It is not only necessary to make the right kind of start, but the work must be regularly and faithfully performed, day in and day out.

As a rule, beginners start with great enthusiasm, and not a few build air castles—but to very many of them the sameness of the work, the close application, the constant watching, soon becomes monotonous, and then there is a shirking of duty, neglect, carelessness—and the enterprise becomes a failure. The point is to begin small—measure the side of the initial step with the amount of capital and experience at hand.

It is often the case that men with more or less available capital practically put all their money in houses and stock. This is a mistake, and



Another Meat Breed: Light Brahmas.

personal experience in the work.

In the parlance of to-day, "a man must be on to his job," He must know what to do and how best to do it. He must be aware that inexperience may cause leaks, and leaks will soon sink the enterprise.

It is a noteworthy fact that the most successful poultry farms of to-day are those that have started from a small beginning and gradually expanded as business and experience warranted. Men who would not go into the dry goods business for the reason that "they knew nothing about it," will build houses and stock them, and expect the hens to do the rest.

Hens. like cows, yield a profit according to the treatment given.
They will not stand neglect. They are hard workers when properly rewarded, but can be the most idle and indifferent producers when made too shift for tremselves.

·4th International Egg-Laying Contest, Victoria, B. C.

SUMMARY OF RESULTS

SUMMARY OF RESULTS.
Duration of Contest (months) 12
Average cost of food per pen (six birds)
Victoria, B.C.

Our agricultural colleges have done much to teach the new aspirants how to tread in poultry paths, and men and women who endeavor to improve by these excellently arranged courses of

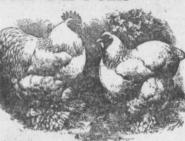
instruction, will have won half the battle—the other half naturally belongs to practical experience.

A man with \$1,000 had better invest one-half of it in buildings, stock and fixtures, and reserve the other half for feed and running expenses, rather than invest the whole amount in the equipment, and have to go in debt for the feed.

Eggs and poultry are staple crops, and the demand is far greater than the supply. This country needs more poultry farms, and they will be successful when properly built and managed. But the beginning must be small, and the growth gradual, so that every part of the work is promptly noted and correctly performed.—M.K.B.

Please Wash the Pans

"PLEASE wash the pans." It was a brutally direct way of speaking to one of the best house-



A Splendid Pair of White Cochins

keepers of the neighborhood. But then, we were in the henhouse, not her kitchen, which was immaculate. Moreover, I felt that I could take liberties, as I was there on her invitation to give some suggestions on chicken culture. That Jady would not think of eating from the same dishes or drinking from the same cups for a week at a time without washing, but a glance was sufficient to show me that the dishes from which her chickens dránk were not cleaned even as often as once a week.

That was her cardinal mistake as a poultry woman. An egg is composed of almost 85 per cent. water, and if poultry are to lay well, they must have an abundant supply of fresh, clean water. Poultry just take about as much pleasure in drinking from foul, dirty vessels as do people. These same dirty vessels are also liable to be disease carriers. Poultry women are wise to be as cleanly in the henbouse as in their kitchens. Please wash that pan.

Marketing of Dressed Poultry

F. C. Elford, Central Experimental Farm, Ottawa N the marketing of dressed poultry, the aim should be to distribute the produce over as many of the 12 months as possible. Our system in Canada of throwing everything, both old and young, on to the market within a few months in the fall, has done more to bring down prices of poultry meat than anything else. If this year we would endeavor to market as many of the early cockerels as possible in the spring when they can be sold as broilers, it would lessen the glut which invariably takes place in the fall. Sell the old hens after breeding season rather than along with the chickens in the fall. The relative prices for spring maketed produce, compared with fall. is very marked, and as an illustration take the prices for the young ducks which we marketed last year, an account of which was given in 1913-14 report, page 966.

These green ducks were marketed when 10 % weeks of age, and brought at two cents a pound within a few cents of a dollar each. ducks, however, when marketed in the fall or the usual time for selling them, brought the same price per head, and the difference in the cost of production meant the difference between a good margin of profit and a loss. The green ducks cost for the amount of feed seven cents per pound of grain, which meant that the selling price gave practically 200 per cent. profit over the cost of food, whereas the selling price for the older ducks in the fall barely covered the cost of feed. The Toronto quotations for ducklings last spring were from 30 to 50 cents per pound live weight, while the quotations last fall for the matured ducks were nine to 11 cents.

(Concluded on page 9.)

Jas. Ar

"WELL the ggs, "I portant factor followed such a merchants and heard in a long an egg exhibit Agriculture at exhibit, of whice the gg on it householder with the the ground old storage father and it we have a such as the said it we have been such as the said it we have been such as the said it we have a su

that the cold

be allowed to

and months,

immense profit

was firmly conv

do away with ance, the const very much be was along, agr suppose she da If hens laid and January a June, if eggs winter to the s in the summer get along with

present conditi age warehouses The greater Canada are promer months. activity of tiing up the down to next getting out of as they could of it is, however when the surthat surplus at

it.

In the winter
ada does not p
in winter to
total population
then placed on
in the reach of



Cold Storage Necessary Jas. Armstrong, Welland Co., Ont.

"WELL these fellows may know a lot about eggs, but they've left out the most important factor in the whole situation." Then followed such a tirade against the cold storage merchants and warehouse men as I have not heard in a long time. We were standing before an egg exhibit of the Dominion Denartment of Agricukure at one of our live stock shows. The exhibit, of which I saw a description in Farm and Dairy some time ago, shows the various stages of the egg on its way to market. The Toronto householder with whom I was talking considered that the only factor worth considering was the cold storage factor.

He said it was a sin and a shame that the cold storage men should be allowed to hold eggs for months and months, and then charge immense profits on bad eggs. He was firmly convinced that if we could do away with the cold storage nuisance, the consumers would get along very much better. His wife, who was along, agreed with him. I do not suppose she dared do anything else.

t then

n, which

I could

tation to

e. That

he same

s for a

a glance

nes from

ned even

poultry

t 85 per

ell, they

h, clean

pleasure

people.

se to be

itchens.

y -

Ottawa

the aim

over as

rsystem

old and

onths in

prices of

year we he early en they the glut Sell the in along e prices with fall. take the narketed riven in when 10 % a pound Similar ll or the ne same cost of a good n ducks nts per selling fit over rice for ered the or duckents per last fall nts.

If hens laid as freely in December and January as they do in May and June, if eggs were marketed in the winter to the same extent as they are in the summer, we might be able to gef along without cold storage. Under present conditions, however, cold storage warehouses are absolutely essential.

The greater portion of the eggs of Canada are produced during the summer months. If it were not for the

activity of the cold storage men in buying sup the egg surplus, prices would drop
down to next to nothing and farmers would be
getting out of the poultry business as quickly
as they could cut off the heads of their hens. As
it is, however, the cold storage man steps in
when the surplus is being produced, buys up
that surplus at a reasonable price and then holds
it.

In the winter hens lay but scantily, and Canada does not produce anything like enough eggs in winter to feed a small proportion of the total population. The cold storage eggs are then placed on the market at a price that is within the reach of the average consumer. Were it not for the presence of these eggs on the market, the price of the few fresh eggs offered, would make them a luxury for the very rich, and even out of the reach of the well-to-do migdle classes. At the same time, the high prices realized for fresh eggs would not be of much benefit to the farmer as so few of them are purchased in the winter months. The additional advantage of the high winter market would not begin to counterbalance the low price that would rule in seasons of great production, without cold storage facilities. Cold storage warehouses should perhaps be more carefully regulated than they are, but we should not forget that they are a necessary link in the egg trade of the country.



Feathered Friends.

Management of a Farm Flock Andrew Geddes, Chateauguay Dist., Que.

AST year I kept about 50 Rhode Island Red hens and found them very satisfactory. I have tried raising different breeds of hens, but find I like the R. I. Reds the best. They are profitable laying hens, and are also suitable for table use.

In the spring we set our hens in a house separate from the henhouse, where they have plenty of food and fresh water, also lime and dust to roll in. These hens do not get outside until the chicks are out. When the chickens come out they are removed to a long coop which has slats on the front. This coop is divided up and will

hold several hens. The chicks are able to run about outside, but the mothers cannot get out. When they are about a week old the hens are also let out. To my very young chickens I feed a mash made of bran and moulie, but as they get older I give them wheat. I always ak the wheat in water so it will not kill the chickens by swelling in their crops. The chickens are allowed to run about all summer. I feed them only twice a day affer they get a good size.

I sell and kill off my male chickens. In September I select the best pullets,—the ones I intend keeping, and then have these shut up in a box stall by themselves. I feed these pullets very heaily, giving them all they can eat. Their food consists of boiled potatoes mashed and

mixed with moulie. I also give them mixed grain at times. The reason why I do this is because I find when pullets are treated this way in the fall they lay steadily all winter. If the pullets were allowed to run with the old hens during this heavy feeding the old hens would become too fat.

In the winter I feed my hens corn on the cob,—this corn is warmed in a pan in the oven, which they get in the morning. At noon they get a mash of boiled potato skins, crumbs and bran, and at night they get mixed grain.

The can of water in the house hangs from the ceiling by a chain. I also hang a cabbage or some other vegetable from the ceiling for the hens to peck at. A piece of meat boiled and hung on a cord in this way is excellent food for the hens. My

hens get a piece of meat every other day during the winter. I find that a piece of cow's liver or lights boiled and hung up makes excellent food. I always feed my hens and chickens sulphur once a week. I find that the sulphur is a preventative of lice.

It is not good to have too many hens in the one house. I have a scratch-house in connection with my hen house, in which the hens are allowed to scratch. In this scratch-house the hens have dust and gravel to roll in, also a self-feeder grit box on the wall.

I always keep my hen house whitewashed inside and out, and I think this is also a preventative of lice.



The Stately Goose Has Relped to Pay Many a Grocery Bill and Occasionally the Interest on the Mortgage.

130-Egg Incubator and Brooder For \$13.90

Wite as today. WISCONSIN INCUBATOR CO., Box 234, Racine, Wis., U. S. A.

IT WILL PAY YOU TO BUY

Glen Allen Poultry Farm Pure Bred Stock

Our strains will lay and win for you. S. C. WHITE LEGHORNS. S. C. WHITE OFFINGTONS, INDIAN RUNNER DUCKS. Bred for egg production. Vigor, size, type and color. We have hundreds of selected breeders. Get, eggs and dar-old chicks for sale Get our catalog.

GLEN ALLEN POULTRY & BEE FARM, BOX 284, ST. THOMAS, ONT.

PAKENHAM'S-



LENOLFUN

CE KILLE

CAST IRON DROOT

COAL BURNING-SELF RES

SILVER CAMPINES RED SUSSE.

Are not only the best of layers but have proven them selves equal to any by their winnings at Gansda's larges shows at Gueiph, Ottawa, Peterboro and Belleville. A choice lot of pens mated for this season's trade. EGGS AT REASON ast.E PRICES.

W. E. PAKENHAM, Drawer C, NORWOOD, Ont,



Powder, in sifter-top car-enough for 5 gallons solu-

ZENNER DISINFECTANT CO., 318 Sandwich St., WINDSOR, Ontario



Our Poultry (2)

Duck and Geese Pointers

drake on Fekin ducks will produce sterile progeny.

While breeding ducks can be suc-cessfully kept on land, it has been proved that those having the advan-tage of bathing water keep in a more healthful condition, and there is greater fertility in their eggs. Bath-low, is the only real exercise a duck

ing is the only real exercise a duck can take for, unlike the hen, she can-

Pekin Ducks at Macdonald College,

ot scratch. A less number of drakes are needed in a flock where bathing water is supplied.

The age of vigor and productiveness in a duck is about double that of the hen. Ducks have been successfully head.

of the hen. Ducks have been successfully bred up until seven years old. Geese enjoy low, wet pastures. They do not thrive in confined quarters. Grass and water is their principal diet. According to an experiment diet. According to an experiment fall-some years ago in Rhode Island, fall-some hand were considered to the fall of the state of

nnest kind of pasture.

Matthieu, the cook of Cardinal de
Rohan, was the first who suggested
the use of liver of the goose for pies.

In Europe the liver of the goose is
much esteemed, which is sold to pie
makers who make of it the wellknown pies. known pies.

Tegetmeir, the famous English au-thority, says in England ducklings are bred for the London markets as are ored for the London markets as early in the year as possible. At Christmas time, in the neighborhood of Aylesbury, as much as 12s a dozen will occasionally be given for eggs of good Aylesbury ducks, in order that will oer acionally be given for eggs of yood Aylesbury ducks, in order that the ducklings may be reared and fattened early, for in the spring months frow 12s to 15s a couple is no uncommon price for good Aylesbury ducklines. Formerly the struggle was to get the ducklings ready for the reason of the position of things is reversely the struggle was to get the ducklings ready for the value of the property of the p

EGGS FOR HATCHING Duck and Geese Pointers THE duck laying scason opens in February, although a number of early half the diagon begin laying in January. The the scason are rarely ever fertile of the scason are rarely ever fertile. The duck house should have an earth floor, and this ought to be heavily bedded with leaves, straw, or some other light litter. It is claimed by those who have tried it, that a cross of Muscovy drake on Pekin ducks will produce sterile, progeny.

Column

from Mammoth Bronse Turkeys, 3 for \$1.00. Gambden or Turkeys 63 for \$4.00 each. Mammoth Pekin duck ergs. \$1.55 doz. White Rock and Black Lang-shan ergs, \$1.50 doz. R. I. Red ergs. \$1.00 doz. Some fine cockerels to spare, Al breeding stock. Write your wants and place your orders early. No or-ders filled parcel post.

MISS L. DIXON
R. R. No. 2, Niagara Falls South, Ont.

BARRED ROCA COCKERELS COCKERELS and HENS

Cockerels \$1.25 and \$1.50; Hens \$1.00 A Choice Lot to select from. Box 18, FARM AND DAIRY, Peterboro

Thoroughbred LEGHORNS Are trap-nested every day at Inward-leigh Leghorn Farm—that is the reain you are positively guarantees in you are positively guarantees where the same in you order establing from us. Choice Cock at \$3.00 each. Our mating list GEORGE W. PEAL Box 64, ROCKWOOD, Ont



FOR SALE Choice Pure Bred Cockerels, Buff Orpington, \$3.00 each. S. C. White Leghorns, \$2.00 each.

Write for Particu F. H. REESOR, R. R 1, MARKHAM, ONT.

R. C. Rhode Island Reds R. W. LITTLE - LAKEFIELD, Ont.

FOR SALE AND WANT ADVERTISING THREE CENTS A WORD, CASH WITH ORDER

WANTED to hear from owner of got Farm for sale. State cash price ar description.—D. F. Bush, Minneapoli Minn.

FOR SALE—Light faun and pencilled faun Indian ducks. Eggs in season. Write.— E. Fenner, B. B. 1, Carlsruhe, Ont.

BARRED ROCKS—Anyone needing good Barred Rock breeding cockerels, or eggs. write to H. A. Hovey, Clinton, Ont.

FOR SALE—S. C. White Leghorn Roosters from Prize Winning Stock.—Fred Battle, R.R. 6, Bowmanville, Ont.

FREE to stockmen and positry-more construct a house which an freeding; how to construct a house which an freeding; how to construct a house which an order property of the construction of

BUTTER MAKER WANTED-With two to three years practical experience and efficient to operato the Babcock test. One who has taken a Dairy School course preferred. Address Box 480, Farm and Dairy. Peterboro.

WANTED—An experienced dairyman and general farm hand. Apply with refer-ences only. Married man preferred. Best wages for right man.—F. C. Beau-pre, R. R. 2, Simcoe, Ont.



Flock

Larger fire-pot, coal mag-azine, and larger 12-inch grate insure constant fire and correct heat. Auto-matically regularied; case to adjust; quick in ac-tion; keeps correct tem-perature all the time in perature all den weather hanges. All wool cur-tain—high roomy lover

"No Need to Look Farther" Says Victoria Man

March 16, 1952: "Have had our Candee Colony Brooder working the last two weeks with 500 chicks and have no losses our Jane 1, 1955." Thave been very well pleased with results from the Candee Colony Brooder this season. Have used many different brooders the Colony Brooder that season. Have used many different brooders the plant of the colony from the colony for the colony from the

Letters from other operators tell how they brood large flocks of chickens with the Candee, with less than 6% loss.

The constant, correct and healthy heat with the Candee makes big, strong chicks, saves loss and makes poultry-raising more profitable.

Big Illustrated 1916 Catalogue FREE

Contains many pictures of poultry plants in all parts of the country with letters from Candee users telling about their success. Valuable to any poultry raiser. Write for your copy to-day.

CANDEE INCUBATOR & BROODER CO. Eastwood N.Y.



Coal Magazine-12 inch grate

Easy to Attend.

One Cor Notice the nee

Factors tl

The quest

other factor is, however, the breeding

it is true variety of t

throughout mains that i

there are co

struction of

house, to be

and free fre

mental work

along this li from the sta and more or preferred.

satisfactorily

we find the a

(O.V spring ver hatching po by such bi where the b cise freely in

ideal condition culosis to de is quite a con a flock of bir living in the staying in pe and draughty pings are a Some poultry cool, open ty ground that the combs, but it

where the air the house not freezing of co house, where temperature s any time. The course, control space per bir pen the more quired. The Influe The environ

keepers. It is importance an of it has in a cause of failure to emphasize ting the birds 3, 1916

HING

outh, Ont. KERELS HENS Peterboro

RNS t Inward-the rea-uaranteed order eggs WOOD, Ont

It's an encycle of it. Only 15els, Buff

AM, ONT. Reds or 15 \$1.50 LD, Ont.

ERTISING TH ORDER

illed faun Write.— Out. ing good , or eggs. Ont. Roosters d Battle

poultry-illustrated how to odate 100 ments of with the and the our days, al Purple T. CAN. and ef-est. One course rm and

nan and th refer-referred. C. Beau-

Rearing Chicks the Natural Way.

And there is no better place for Biddy and her brood than on the freshly cultivates soil of a well kept orchard where green food and animal matter are both surplied by nature.

(O, tissued from page 5) spring very materially lowers the hatching power of the eggs produced by such hist. In its true even where the birds are longelled to exercise freely in the pen.

The question of the housing of the birds is of equal importance to the other factors effecting production. It is, however, better understood than is the breeding or feeding work. While it is true that there are a great variety of types of houses in use throughout the country, the fact remains that in all these divergent types there are certain factors which have received consideration in the construction of each and all of them. A house, to be highly efficient, must be well ventilated, free from dampness and free from draughts. In experiment the construction of cach and all of them. A house, to be highly efficient, must be well ventilated, free from dampness and free from draughts. In experiment of the construction of the conduction of the construction of the construc



One Corner of a Laying Pen. Notice the nest boxes and the dry mash feed hopper in the corner.

feed bupper in the corner.

Ideal conditions for roup and tuberculosis to develop and spread. It
is quite a common occurrence to see
a flock of birds roosting in trees and
living in the open in preference to
staying in pens that are dark, damp
and draughty, and where the droppings are allowed to accumulate.

Some poultry keepers object to the
cool, open type, of houses on the
ground that the birds will freeze their
combs, but it has been proven that
where the air in the bouse is dry and
the house not draughty there is less
freezing of combs than in the warmer
house, where the air is damp and the
toptop-compact the size of the size of the concourse, corn The size of pens will, of
course, corn The size of pens will, of
course, cord of the size of the corn floor space per bird required.

The Influence of Environment quired.
The Influence of Environment

ouried.

The Influence of Environment
The environmental factor is very
often lost sight of by many poultry
keepers. It is, however, of very grieat
importance and the non-consideration
of it has in many cases proved the
cause of failure. It is not necessary
to emphasize the importance of keeping the birds comfortable in their

Factors that Affect the Production of Eggs

(O. dissued from page 5)

spring very materially lowers the hatching power of the eggs produced by such birds. This is true even where the birds are compelled to exercise freely in the pen.

The question of the housing of the birds is of equal importance to the other factors effecting production. It is, however, better understood than is the breeding or feeding work. While it is true that there are a great week.

as much as 30 per cent. 10; minosweek.

The question of production- is,
therefore, one requiring close attention to detail. While it is true that
the world war now raging; tends to
make coorditions more or less unstable, jet the fact remains, that the
market conditions are such as to give
the greatest encouragement to those
producing food products, and especially
such staples-as eggs and poultry.

Marketing Dressed Poultry (Continued from page 6)

CONTINUES POR PAGE of The same is true of the chickens; broilers were bringing 30 to 30 cents a pound live weight in the spring when reasters, or the same birds if sold in the fall, were bring 10 to 13 cents, and as for how, the fall prices quoted in Torons were from six to eight cents, we can in the at 14 to 30. six to eight cents, whereas spring they were at 1 at 14 to 20

System Must Remedied

spring they were an at 48 to 20 cents.

System Must Remedied
This system of holding prectically all poultry measures and must be remedied if the produce and the state of the produce and the state of the produce and the state of the sta

Worth More When Broke

EXCELLENT LAYING STRAINS

of BARRED ROCKS, WHITE WYANDOTTES and BUFF LEGHORNS. Individual control of the co

Egr. 8,155 per fittent, 86.50 per hundred. Free catalog gives full particulars and testimonishs from former customers. 100 good Buff Leghorn hems for im-mediate sate-81.55 each.

CHARLES WATSON - Arch Grove Poultry Farm - LONDESBORO, Ont.



This Book Helped Me Improve My Farm

It is the most valuable book I own and it cost me nothing.

It has saved me time, labor and money and I've got better looking, more durable and more serviceable buildings than I ever had before.

The first cost of concrete farm improvements is also the last cost. There's no after expense for paint or repairsno danger from fire, rot or rust-no trouble of any kind. Besides concrete lowers the insurance rate.

If you haven't a copy of "What the Farmer can do with Concrete", send for one to-day. There's more than 150 pages of valuable building information, 52 practical plans, illustrated by diagrams and photographs, and dozens of other interesting farm facts.

A copy will be sent to you free of charge, immediately upon receipt of coupon below.

Canada Cement Company Limited Herald Building, MONTREAL

CUT OUT AND MALL



CANADA	CEMENT COMPANY LIMITED, Heral/ Building, MONTH	EA
758	Gentlemen: Plase send mer free copy of "What the Farmer can do wit'. Concrete".	1
Name		

Hints for February

EEP the biddies out of the snow and off the frozen ground. Have plenty of straw to scratch in if satisfactory egg yield is desired. Chicks of the large breeds hatched is month will make splendid early

roasters.
Feed well. The reward will be more

reed well. The reward will be more profits. It the logs to warm the birds. When getting a good egg yield tell some one else how to do it. Give the chickens plenty of milk. They can make good use of it. Every one does not keep poultry, but many who do not would like to. The eggs from hens that have laid heavily during the winter are less than the control of the con

It pays just as much to lay awake nights to watch a hundred chicks hatch out as it does to keep awake to save a five dollar calf, and the chicks are worth more.

The Coal Burning Brooder By F. E. Ellis FEW months ago a well-known

poultry lecturer made this statement to an audience of farmers—that everyone of them should have at least 200 laying hens on his farm. The statement may seem extreme to the man who has been accustomed to keep an ordinary been accustomed to keep an ordinary farm flock of anywhere from 20 to 40 laving hens of all ages and breeds. Rightly handled, however, a flock of 900 pullets and yearling hens would be a nice source of income. The greatest difficulty would be the renewing of the flock, as if the 200 layers were to be replaced every year, several hundred chickens would need to be raised each season. With natural incubation and brooding the feat would be almost impossible. The incubator, however, has solved the natural incubation and brooding the feat would be almost impossible. The incubator, however, has solved the hatching problem. The coal oil brooders and hovers have gone a long way towards solving the brooding problem, but even these involve a large expense for coal oil and more trouble to care for several broods than the busy farmer will care to give in the spring of the year. The last word is the best word and it is now found in the large-sized coal burning brooders that are on the market. I first became interested in these big brooders through seeing them advertised. The idea of one breeder caring for 500 or more chickens was indeed attractive. Recently on a wisht to the Central Experimental Farm, I was informed that Frof. Elford had one of these big brooders and had used it the previous season. I went right over to see it. I discussed its

right over to see it. I discussed its merits with Prof. Elford, who was warm in his praise of the large-sized coal burning brooder and he recom-mended it heartily to anyone who was mended it heartily to anyone who was in poultry on an at all extensive scale. From what I have learned of this brooder, I believe it will be the brooding method of the future in all cases where 100 or more winter layers are kept. Its merit lies not only in the labor-saving factor, but also in its efficiency.

ATHER (with a coin concealed behind him)—What is it that has a head on one side and a tail on the other? Willie-Why, a chicken on a fence?

Better Butter and better prices come with Windsor Dairy Salt

Make Your Maple Trees -Produce a Profit-

Never before has there been such a fine opportunity to earn big profits from your maple trees.

your maple trees.

The supply of pure maple products is far behind the demand. This means far behind the demand. This means and the product of the demand of



GRIMM MFG. CO., LIMITED



Winter Tours to Florida, Louisiana, Mississippi, California, Etc.

The Canadian Pacific Railway of-The Canadian Pacific Railway of-fers particularly good service to De-troit where direct connection is made for Florida, via Cincinnati and At-lanta, Ga. Jacksonville, Florida is reached second morning after leaving Detroit. Excellent connection for Florida is also made via Buffalo. The Canadian Pacific-Michigan Central route will be found the ideal line to Chicago, where direct con-nection is made for the Southern States, New Orleans is reached sec-ond morning after leaving Toronto.

States, New Orleans is reached second morning after leaving Toronto. Excellent connection is also made at Chicago for points in California, Utah, Newada, Texas, Arisona, etc. The Dining, Parlor and Sleeping car service between Toronto, Detroit and Chicago is up-to-date in every particular. Connecting linea issue parate through sleeping and dining

Those contemplating a trip of any nature will receive full information from any C.P.R. agent; or write W. B. Howard, District Passenger Agent, Toronto.

PUREST-GLEANEST MOST RELIABLE GET CATALOGUE AT BEST DEALERS OR DIRECT

ALPHA Rigs Saw More

Wood At Less Expense

Freedom from weak complicated parts-low fuel consumption-ability to run steadily in the coldest weather-plenty of power to pull the saw through wood

of any size that can be brought to it-these are ad-

vantages that are making friends for Alpha Sawing

Whether you want an outfit to saw wood for your own use only, or to do work for your neighbors, or both, you cannot find a more efficient, economical, or more satisfactory all-round rig than an Alpha. The cost for fuel is the lowest. Its construction is such that time and money wasting delays are eliminated. You can depend upon it to run steadily all day long on either gasoline or kerosene, even in the coldest weather.

The above illustration shows one of our special steel frame mounted sawing outfits. Let us know what your needs are and we will be glad to quote you prices and send complete description of a rig such as you wish.

DE LAVAL DAIRY SUPPLY CO., LTD.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA LARUDET MANUFACTURERS OF DAINT SUPPLIES IN CANADA Sole distributors in Canada of the famous De Lavai Cream Separ-ators and Alpha Gas Engines. Manufacturers of Ideal Green Feed Silos. Catalogues of any of our lines mailed upon request.

50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

WINNIPEG

PETERBORO

MONTREAL

Rigs wherever they are used.



EGGS, BUTTER Live Poultry Bill your shipments to us. Advise us by all and we will attend to the rest romptly. Egg Cases and Poultry Coops supplied non request.

VANCOUVER

The DAVIES Co. TORONTO, ONT. Established 1854

CREAM

WE WANT YOURS Profitable Prices Promptly Paid BELLEVILLE CREAMERY LTD.

Better

February 3

HAVE you e tisements a of late year of late years and years ago, as a cold, every form old, every form old,

"Mr. Tyers res bility and Ladie sell off his ext Winter Stock o Winter Stock or Pelisses at very that he may m Fashions, as he month he will hadies such a values of the pelisses house will excel honor him with pointed in meeting they can "N.B.—Great vi Haberdashery, hetc."

How different is ling, personal ad anniliar with to see for instance advertisement of side cover, and tigst beneath. The on that New Ippage 9. Note howere meant for turn up the Fe Ilabson Phonogir in the same was Grain and Pure-Be men with the Pthe Het Loo one

us about anythin if possible we will can be secured

Important Pr

By Ontari The Thursday devoted to mar devoted to mar J. R. Hastings, ed the point the when the fruit a trict should unit system of coope sented by Mr. Catherines Catharines, was advertising cam fall in the Niage

> Fo Most of many of us a scores of pur But when we often are our readers i

clovers-pots advertisemen

Note thi Feb. 17. If choice seed change" of the

Per Bus.

(11)

Better Acquainted

299

uisi-

Etc. of-De-

At-

for

igan deal

ern

sec-

nto e at etc. ping troit

very

vrite

How different its tenor from the ting-ling, personal advertisements we are all so familiar with to-day! Take in this is-sue for instance of Farm and Dairy, the side cover, and the Page Wire Fence Coy-last beneath. Then turn over to the one on that New Idea Manure Spreader on on that New Idea Manure Spreader on the Coy-Line State of the Coy-lant personal properties of the Coy-lant propert

y (15), the style of advertisements has greatly changed—for the better. The modern and, is expected to be read, odds that are offered. And please keep this in mind: Farm and Dairy is always endeavering to introduce to you just those square deal." We regard our readers as "our friends." You can help us by patronting these you find in our columns. "our priends," You can help us by patronting these you find in our columns. It is not to be a supported by the property of the pro

Important Problems Dealt With By Ontario Fruit Growers

The Thursday morning session was devoted to marketing problems. Mr. J. R. Hastings, of Winona, emphasized the point that the time has come when the fruit growers of Niagara district should unite in a comprehensive system of cooperation. A report presented by Mr. W. A. Buntine, of St. Catharines, was to the effect that the advertising campaign conducted last fall in the Niagara district was a distinct success, as it had aided mate-

Have you ever perceived that advertised the communications from the merchange of the years? The first more intimate sonal communications from the merchange of the years? The first more intimate sonal communications from the merchange of the years? The first more intimate sonal communications from the merchange of State Auc.ions, conducted by frice paid the growers was increased them aforetime lacking. They perceive a confull and the properties of the population of the first state of the first

rially in marketing the crop of fruit at reasonable prices. The results of precooning experiments at Gr.msby, were given by Edwin Smith and J. A. Creelman, of the Dominion Cold Storage Division.

Muen interest was taken in an address by H. A. Emerson, general manager of State Auconos, conduce dby price paid the growers was increased that the Department of about 25 per cent and the price paid that the Department of the Cold Storage Division.

The condition of the Cold Storage Division.

All the condition of the Cold Storage Division.

The condition of the Cold Storage Division.

The c

purchase of requirements and the sale of products.

The second meeting was held under the auspices of the Goderich Township Farmers' Club. There were 26 present, and a motion was passed favoring affiliation with the central organization. One member was strongly against such action, but another, Mr. Sourby, gave the motion strong support. Mr. Geo. Andrews is president and W. C. C. Naftel secretary of this club.

There were 75 present in the meet-

There were 75 present in the meeting the following day at Ben Miller.
Mr. Morrison spoke and there was a spirited debate on the subject of "Enlistment vs. Production." This organization is one of the branches of the United Farmers of Ontario.

Financing the Local Club

MATTER of live interest to many local Farmers' Clubs is the financing of their club ations. Different methods are operations being tried by different clubs with varying degrees of success. At a recent meeting of the directors of the United Farmers' Company, held in Toronto, a discussion took place on this subject.

this subject.

The farmers of Lambton county have been very successful in some of their cooperative movements during the past couple of years. One of the past couple of years of the past couple of years on the past couple of years. One of the past couple of years of





DOG DISEASES H. CLAY GLOVER, V.S. 118 West 31st St., N.Y.

ETTCLOVER SEEDS

Government Standard

No. 1 Red Clover \$17.00 " 2 Red Clover 16,00 1 Alsike 13.00 2 Alsike 12.00 " Alfalfa (Northern Grown) 16.00 " 2 Timothy 5. (This seed grades No. 1 for Purity) 5.50 3 Timothy 5.00 White Blossom Sweet Clover 12,50

Terms-Cash with order

Bags extra at 25c. each. On all orders East of Manitoba of \$25.00 or over we pay the freight.

We Guarantee Seeds to Satisfy or ship back at our expense.

Ask for Samples if necessary.

TODD & COOK Seed Merchants

STOUFFVILLE - ONT.

Till Deep You can go deep with-Give the roots a chance out bring-ing up trash,

stones or manure. can at the same time pul-verize and level. For thrifty crops rely upon the forged sharp, penetrating disks of the

Cutaway CLARK

iak Harrow—Single or Double Action—ligh draft and built for a lifetime of service. I jury dealer has not the genuins CUTAWAY, rite to us direct. Be sure to write us for our ew free book, "The Soil and Its Tillage." Get your copy new.

The Cutaway Harrow Company Maker of the original CLARK disk



WHITE AND COLUMBIA WYANDOTTES, LIGHT BRAHMAS, S.C. WHITE LEGHORNS Over 59 years a breeder, Stock and Eggs for Sale.

Michael E. Boyer, Box 23, Hammonton, N.J.

For More Bushels Per Acre Next Harvest

Most of us believe in the use of a pure-bred sire in our herds; many of us keep pure breds in cattle or swine, or sheep, and there are scores of pure bred poultry flocks.

But when it comes to seed grain (the very foundation of the crop) we often are quite careless. Farm and Dairy is endeavouring to get our readers in touch with the best in seed grain—in oats—in corn—in clovers—potatoes, etc. So for the coming few weeks in addition to advertisements of our big seed-houses, we are publishing

"THE FARMERS' GRAIN EXCHANGE."

Note this week's on page 25. Our next one will be published Feb. 17. If you need good seed write these men. Farmers with choice seed for sale, please arrange early to get into next "Exchange" of the 17th.



WITH ATTACHMENTS \$18.00

ATTACHMENTA THE STATE AND A STATE OF THE STA

a capacity of 6 gallons. The discharge and air chamber tubes are gived on the top of the tank on a single boit, thus permitting the SPRAMOTOR to be swung rrom right to left as will, allowing you to change hands instantly while at work. All the labor is done on the down stroke. Operates so simply plainly to some master it in a few minutes. Everything is so clearly and plainly tose on master it in a few minutes. Everything is so clearly and plainly tose when the same day you receive it. Brop a card for bootlet.

MADE IN CANADA-NO DUTY TO PAY

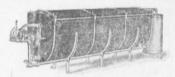
HEARD SPRAMOTOR CO., 2742 King St., LONDON, Can.

Canadian Point of View

There has never been a more opportune time for Canada to make large sales of butter in the United States than now. But this butter must be made from pasteurized cream!

The New York City daily papers have been conducting a very vigorous campaign for better butter that has been pas-

This campaign has resulted in an enormous demand for the pasteurized product.



The BEAVER-JENSEN Ripener-Pasteurizer which we are selling meets every requirement of pasteurization and "makes good " wherever it has been installed.

We will be glad to furnish full particulars upon request.

W. A. DRUMMOND & CO.

TORONTO, ONT.

Canadian Representatives for the

J. G. CHERRY COMPANY, Cedar Rapids, IOWA, U. S. A.

Farmers' Letter File

Saves Time and Money

Ninety - nine farmers out of every hundred lose money at some time because they have not kept copies of their business letters or have lost the receipts for bills they have paid. When you ship grain, produce or livestock or order supplies of any kind by letter, it is important that you keep an



EXACT copy of the letter you write. Without these EXACT copies you will often be put to inconvenience and frequently lose money. Every secretary of a Farmers' Association, School Board or business or-ganization should have a FARMERS' LETTER FILE and keep his correspondence in proper shape. It will save several times its cost to every

correspondence in proper shape. It win save several times are supported in the accompanying illustratine yearly.

The FARMERS' LETTER FILE shown in the accompanying illustration contains pockets for all the letters of the alphabet. Letters you receive and copies of letters you send, as well as your receipts, can the file alphabetically and be found in an instant whenever you want them This file is 11½ inches by 9½ inches, and will accommodate letters of any size up to 8½ inches by 11 inches. When losed the file is 1½ inches the size up to 8½ inches by 11 inches. When losed the file is 1½ inches the did not be sized in the size of the

vehient size and sivil being pass 8 by to incres.

The FARMEDS' LETTER FILE together with Six Sheets of Carbon
Paper for taking copies of letters, will be mailed to any address for ONE
NEW SUBSCRIBER to Farm and Dairy at the regular rate of \$1.00a year.

Circulation Department

Farmer and Dairy - Peterboro, Ont.



Orchard and Garden

TEST all vegetable and grain seed now.

Are the apple trees protected by paper or boards on the south side? If not, they are likely to be injured by

not, they are likely to be injured by sunscald.

Send for seed and plant catalogues, study them, and get the planting list ready. It will soon be time to start many varieties.

Don't keep the seed bed too moist. Usually one thorough watering, when the seed is sown, is sufficient until the plants break ground.

Many varieties of seeds are going to be scarce this year. It will be well to have the seed order in early. For the home garden choose vegetables of best quality. Quantity is not the important thing.

Most vegetables need rich, well-worked soil. Having this, and adding thorough cultivation and care, any-one can lave a number-one garden.

one can have a number-one garden.

Tramp the manure in the hotbed until it is solid, then put the glass on and leave it a few hours before putting the soil in. This will make heating sure.
Swiss chard should be included in

the seed order. It makes good "greens" and is a rapid grower. It may be sown at the same time as early cabbage and transplanted to frames or field.

Large onion bulbs of the varieties Large onion bulbs of the varieties like Denia and Giant Gibraltar are obtained by growing the seed in the greenhouse or hotbed in February and transplanting to good rich garden soil. Thorough cultivation must be given throughout the season.

Growing Potatoes Without Potash

POTATO growers in past years, at least those who have made use of commercial fertilizers, have always favored a fertilizer with a large proportion of available potash. The closing off of the German supply of potash has rendered this fertilizing constituent extremely expensive and notater crowers are now. pensive and potato growers are now face to face with the proposition of growing potatoes with nitrogen and phosphorous only. In this connec-tion, an experiment conducted at the Maine Experimental station will be of interest. Chas. D. Woods sum up the results of the experiments as follows:

up the results of the experiments as follows:
"Throughout the growing season the vines on both the no potash plots were a distinctly brighter green and had a thriftier look than on the adjoining plots. The difference was so marked that it attracted much attention from visitors at the farm. Although some slight irregularities occurred in the yield from the differment plots the average figures show Although some slight irregularities occurred in the yield from the different plots, the average figures show fairly consistent increases with the increase in potash. The plots without potash yielded 110 barrels, or 802 or 10 to age, and nearly double the average in the county in 1915. So far as the results of this one year are concerned, they indicate that a profitable yield of potatoes can be obtained on Aroostook soil without the addition of potan for at least one year."

What is true of these soils applies in the least degree to our soils in Cans.

in no less degree to our soils in Can-ada. There are few soils indeed in ada. There are few soils indeed in which there are not thousands of pounds of potash in the first few inches. This potash can be rendered available by incorporating humus into the soil and through cultivation, conserving the moisture.

The "Economy" Crate

REAT interest centred around the discussion of the economy crate for carrying apples at the recent Ontario Fruit Growers' Convention. The discussion was led off by Mr. Clark, of Cainsville. This style of package was used in Contario style of package was used in Chtario last year for the first time. It is a crate almost the same size as the standard box for apples slightly larger in capacity and sufficiently open to prevent its being classified as a closed package.

Thus it does not come under the provisions of the Fruits Marks Act and does not have to be branded as it otherwise would. This past season there were large quantities of low grade fruit in Ontaria for which it appeared likely there would be difficulty in finding a market although the chief defect was scab. The fruit otherwise, was of large and good the chief defect was scab. The fruit otherwise, was of large and good marketed as No. 8 grade the prices received for it were likely to be small. The use of this crate was adopted to avoid this difficulty. As buyers could see through the slats the quality of fruit in the package it was expected that they would be willing to pay a better price for the fruit than they would if it was graded No. 3 and sold in barrels. The crate was used during the season with considerestive Apple Growers' Association, which shipped fruit to the prairies selling as high as \$2 a crate.

During the season some of the fruit inspectors as well as prominent growers objected to the use of the crate on the ground that as there was

growers objected to the use of the crate on the ground that as there was no legislation governing its use it would not be long before all manner of crates of different sizes would be of crates of different sizes would be in use and that its use might encour-age the production of low grade fruit by making it easier to market it. The discussion was at time heated. Mr. Clarke showed that the crate is cheaper than the ordinary, box, that scabby fruit carriers better in it than scabby fruit carriers better in it than in the box because of the free circulation of air in the box, that it is more easily handled than the box, and that its use had given satisfaction during the seson. He showed also that it was being extensively used by the fruit growers of British Columbia who, it is understood, marketed upwards of half their crop this year in this style of package.

Mr. R. M. Winslow of British Columbia justified the fears of the fruit growers by stating that many difference.

umbia justined the fears of the fruit growers by stating that many differ-ent styles of this package were now in use in the West, that considerable confusion had "resulted therefrom. No formal action was taken by the convention, although the general conclusion seemed to be that this conclusion seemed to be that this style of package had come to stay and that before long. legislation will have to be enacted standardizing the package and governing its use:

Rebates to T the a United Co., Lt Feb. 2 and 3, as to whethe

Kebruary

per cent of their purchas arrears for fe the company.
The points
are as follow
1st: As this

for the secragents of the these officials 2nd: The every local of muneration for do not pay the and others cough. Other more generou commission b helps to enco they might gr 3rd: The pa of this comm

evidence of t the local.
4th: Some purchasing a locals to buy ment of this in the locals, is Central to he locals, even

The policy has been in fo has been four Among them 1st: It adds countant's office, necessi separate accequite intricate

2nd: Great

experienced in



(13)

e average in r as the reconcerned

e concerned, fitable yield ed on Aroo-addition of ear." soils applies soils in Can-soils in Can-soils in Can-force for infirst few ine rendered ing humus cultivation,

Crate red around

economy pples at the was led off ville. This in Cotario It is a lightly largas a clos-Marks Act

past season ies of low or which it et although The fruit and good have to be the prices ly to was adop-As buyers s the qual-age it was be willing r the fruit graded No. crate was

rio co-onne prairies ne of the prominent use of the there was its use it would be ht encour-grade fruit ket it. The ated. Mr. would be crate that box, that free cir-that it is the box,

n satisfac-le showed of British tood, marcrop this ritish Col-f the fruit any differwere now nsiderable therefrom en by the

general that this e to stay ation will dizing the use.

In Union There is Strength A Department Devoted to Cooperative Agriculture

Rebates to Local Farmers' Clubs

A T the annual meeting of the
United Farmers' Coperative
Local Farmers' Local
Local Farmers' Local
Local Rebates to Local Farmers Clubs

A The annual meeting of the

Co., Ltd., to be held in Toronto
Feb. 2 and 3, the point will be raised
as to whether or not the company
should continue to pay a rebate of 25
per cent of commissions earned on
their purchases, to the local clubs
arrears for fees to the Unden ne in
arrears for fees to the Unden ne in
ers of Ontario and that hold stock in the company.

The points in favor of this policy are as follows: 1st: As this commission is intended

for the secretaries or purchasing agents of the clubs, it encourages these officials to deal through the

these officials to deal through the central company.

2nd: The secretary or agent of 2nd: The secretary or agent of every local club should receive remuneration for his work. Some clubs do not pay their secretaries anything and others do not pay their's enough. Gthers still, of course, are more generous. The payment of this commission by the central to the local helps to encourage some secretaries. helps to encourage some secretaries to continue in office when otherwise

to continue in office when otherwise they might grow discouraged.

3rd: The payment back to the local of this commission is a practical evidence of the identity of interests that exist between the central and the local.

that exist beth an the central and the local.

4th: Some business concerns offer commissions to the secretaries or purchasing agents of some of the locals to buy from them. The payment of this rebate by the Central to the locals, is supposed to help the Central to hold the trade of such coals, even if to often does not amount to much.

Objections

The policy of paying this rebate has been in force for over a year. It has been in force for over a year. It has been in force for over a year. It has been in force for over a year. It has been for the following the following

clubs.

2nd: Great difficulty is sometimes experienced in obtaining prompt de-

sous relations.

3rd: Sometimes locals wire or write for rush shipments of goods. When the central orders these goods, it is advised that the price of these goods have advanced. To avoid delay the Central ocasionally throws off all or a part of its commission in order that Centura occasionally throws of an or a many arms, it is commission in order that many arms, it is commission in order that many arms, it is commission to the local. Later the local expects to receive a quarter of the original commission as a rebate and is apt to think the Central is trying to avoid paying the commission when the situation is explained. Of course, they actually obtained, in some cases much more than their commission, when the 4th: The Central has been crediting this 25 per cent rebate to the locals whether or not its share of the commission was sufficient to meet its overhead expenses, such as office rent.

overhead expenses, such as office rent, overhead expenses, such as office rent, postage, wages, telegrams, etc. Some months the Central has been operated at a loss while crediting these rebates to the locals. The amount of these rebates, while a comparatively small matter to most of the locals makes the difference to the Central at times, between doing business at an actual loss and doing it at a pro-

5th: Sometimes the Central loses opportunities to purchase goods at a considerable discount or on a rising market by not being able to pay cash for them. Were its commission larger, it would accumulate enough funds to enable it to buy goods to the best possible advantage. These goods could then be furnished to the locals at a better price than is now

possible, 6th: The by-laws of the Central Company provide that it cannot pay a dividend of over seven per cent on (Concluded on page 15.)



He was First in an Unusually Strong Class of Bull Calves This year solutions were included in the prize list of the Ontario Winter Fair for built calves, senior and junior, of the dairy breeds. The result was a strong linear year of the Control Winter Fair for the Control of the Control



Sydney Basic Slag

Fifteen thousand tons Sydney Basic Slag were used in the Maritime Provinces last season. What makes money for the fruit grower of the Annapolis Valley and the dairy farmer of Nova Scotia will be found equally profitable when used by Ontario farmers. Don't let another season go past without buying SYDNEY BASIC SLAG.

Write us for particulars

- THE

Cross Fertilizer Co., Ltd. SYDNEY, NOVA SCOTIA

FARM AND DAIRY

AND RURAL HOME PUBLISHED EVERY THURSDAY



SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, \$1.50 a year. For all countries, except Canada and Great Britain, add \$50. for postage.

ADVERTISING RATES, \$2 cents a line flat, \$1.50 an inch an insertion. One page \$6 inches, one column \$15 inches. Oppy received up to Saturday preceding the following week's issue. g week's issue. UNITED STATES REPRESENTATIVES

STOCKWELL'S SPECIAL AGENCY Chicago Office—People's Gas Building. New York Office—Tribune Building.

CIRCULATION STATEMENT CIRCULATION STATEMENT
The paid subscriptions to Farm and Dairy numbers
\$1,000. The actual circulation of each lesse, includer
\$1,000. The actual circulation of each lesse, includer
\$1,000. The actual circulation of each lesse, includes
\$1,000. to \$4,000 copies. No subscriptions are accepted
\$1,000. to \$4,000 copies. No subscriptions are accepted
at less than the full subscription feature into the paper, showing its distribution by counties and provinces, will be mailed free on request.

OUR GUARANTEE.

We Guarantee that every adverter in this issue in the control of t

The Rural Publishing Company, Limited PETERBORO, ONT.

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

Hatch Early

HE size of the next winter's egg crop depends largely on the date the chickens are hatched this coming spring. The eggs that pay are the eggs that are laid from November to February. The pullets that lay them are the ones hatched first in the spring. Chicks of the American breeds should all be out of the shell by the end of April. Leghorns, which mature more quickly, should be hatched not later than the middle of May.

It was once the practice of expert poultrymen to start their incubators the first of February. Many still continue this practice, but many more have discontinued it. It means too much work with the chicks, and now even professional poultrymen are hatching the most of their chicks at a season when they can be got right out on to the ground. All endeavor, however, to have the chicks intended for layers next winter out before the middle of May. A chick hatched in April will lay fully two months later than one hatched in May. June hatched pullets are not apt to lay until the big prices of the following winter are over for the season. There is an advantage in hatching chickens early, too, in that we then have more mature breeding stock the next spring if yearling pullets must be used for the purpose. The first step toward early chickens is the selection and mating of the breeding pen, which should already be completed.

Why He Succeeded

66T T isn't the big things that make profits for the farmer," a well-known Institute speaker recently remarked to an editor of Farm and Dairy. "It's the little things that too many of us overlook altogether."

Many farm failures are explained by this shrewd remark. Most of us will attend fairly regularly to the getting in of the seed, the harvesting of the crop, threshing the grain, and the other major operations of the farm. How many of us, however, fail to test that seed before we sow it, tighten the bolts on the machinery before they come off altogether and cause a serious breakage, weigh the milk from the cows to which we feed our crops, and so on through the long list of details, each one of which in itself seems so simple, but which in the aggregate constitute the difference between a good farmer and a failure? Call it what you will, eternal vigilance or infernal diligence, it is attention to the details that makes a bank account, buys the farm auto. and supplies the gasoline.

Live Stock After the War

THE Dominion Live Stock Commissioner has issued a statement to Canadian farmers, the first paragraph of which reads as follows:

"Owing to the heavy drain upon the live stock "Owing to the neavy drain upon the live stock of the various warring countries of Europe, they have been forced to go abroad for supplies. The longer the war lasts the greater will be this demand. Moreover, when peace is restored, these countries will require large numbers of the varicountries will require large numbers of the vari-ous classes of animals to replenish their studs, herds and flocks. It should be borne in mind, however, that the buyers who come to this coun-try after the war will require better animals than have been bought during war time, as they will be used largely for breeding purposes." It is the latter part of this statement which is

significant. At the present time, the demand from the warring countries is largely for horses and, to a great extent, this demand will relieve us of a class of horse that we can very well afford to be without. But the demand for this class of horse will last only so long as the European countries are at war. The second demand, and the one which, if taken advantage of, will bring the greatest and most permanent prosperity to the Canadian live stock industry, will call for the very best that we have in the country. If we are not prepared to cater to the demand for good breeding stock, European buyers will look elsewhere. The demand will be not only for breeding horses, but for cattle as well, both dairy and beef. Now is the time to get ready for that demand. We can do it by breeding only the best mares, saving the heifer calves from the best cows, and, above all, using only pure-bred and well-bred sires.

A Pleasing Function, But-

E ACH year the owner of the sweepstakes cow in the Dairy Tests at Guelph or Ottawa, gives a banquet to all other dairy exhibitors and their friends. The editors of Farm and Dairy have shared the hospitality of our dairymen at many of these functions. We have enjoyed ourselves. There is no place where good fellowship comes so easily as around the banqueting board. Fanciers of rival breeds forget their differences and all join in lauding the good dairy cow, no matter what her color or the source of her origin.

Having enjoyed this hospitality so often, it seems out of place for us to criticise, but we would like to ask frankly if the dairymen's banquet has not become a little too expensive of late for one man to bear. Is it fair to ask the winner of the sweepstakes award to spend all of his prize money on a banquet that, starting as a simple, inexpensive function, has become a several course dinner, in many cases with paid entertainers? We would dislike to see this banquet discontinued, but cannot some other way be found of financing it than at present? There is lots of time to think the matter over before another year.

The European War is a war of absolute monarchies. It cannot be considered a successful war unless it ends them.

Pure Bred Possibilities

R. James Knapp, of Merrickville, Ont., who recently captured the sweepstakes in the Dairy Test at Ottawa with his pure bred Holstein cow, Desta, is one of the many who has climbed the ladder of dairy success, but with no intention of telling his own story. An old neighbor of his told it for him, however, at a banquet which Mr. Knapp gave to the other dairy exhibitors at the last Ottawa Winter Fair. seems that when Mr. Knapp was getting well on to his feet as a farmer, he made a rash move, so rash that most of his friends, the narrator included, informed him that he would soon be on the road,-he paid \$6,200 for a neighbor's herd of pure bred Holstein cattle. And here is the sequel. He paid for them out of their own profits in just three years and a few months.

Mr. Knapp's success with pure bred stock has been duplicated many times in all parts of Canada. More can do likewise. All men, we know. are not fitted to make a success with registered cattle, but to the naturally good cattle man, there are far greater possibilities in breeding pedigreed animals than in handling the best of

Systematic Farming

POOR health drove Morris H. Crockett from the city to a little five-acre fruit and poultry farm in California. Previous to his removal to the country, Mr. Crockett had been a successful business man. He tells of his rural experience in Farm and Fireside.

For the first three years he lost money. He had fancy and utility poultry, early and late apples, Logan berries, strawberries and rhubarb. Just why he was losing money, he did not know. The fourth year he decided to apply to his business of farming the same principles that he had applied to the city business of which he had been manager. This involved a bookkeeping system, and during all of that year he kept accurate accounts for every department of his little farm. At the end of the year he did away with fancy poultry, plowed up his rhubarb and strawberries, and specialized on early apples and utility poultry. These, his books revealed, were the money makers. Since then, Mr. Crockett has done well. His accounts showed him how. Without them, he would long ere now have lost his farm

There is room for similar systematic business accounting on every farm. The average farm of Canada is a mixed farm, with many sources of income. On almost every farm, we believe, one or more branches are being run at an actual loss and the income would be increased by its elimination. Other branches are particularly profitable, and these should be enlarged. The only way to know which branches to eliminate and which to enlarge, however, is to keep books. There is no better time to start than the present

The Measure of Good Farming

FIELD per acre is usually taken as the measure of profitable production in farming. A low yield means a small profit or a loss and a high yield means a large profit. But this is not necessarily true, according to a bulletin of the Agricultural Experiment Station on "Rotations and Tillage Methods in Western Nebraska." Europe produces high yields per acre, but small profits per man. The measure of good farming in America is profit per man rather than yield per acre. As the yield per acre is increased beyond a certain normal, the cost per bushel, on the average, will be increased, though in individual cases or during short periods of time the reverse may be true.

Old Cou

mand on the ma

Here Lies

As pointed out and the emerge given Canada a market in a wa which, under which, under would have bee So great, in fa mand for Canad of the cutting where, that the been entirely in demand. A lary dian storage stor consumption hav

been imported to

large quantities

Country.

The British n
not taken favora
eggs. Canadiar
owing to the fac as a rule, do not and can be laid tion. This prefquite evident in tions, for Canac to four cer This fact, hower ing and shipping States eggs in C Killing

Such practices fact that it is kn

The Pr

If the machine before, it should ly disinfected wi duct before any and the same hatch. Lamps ! never before han osene on the ha and killing the elar turning of the and morning, af proper airing as cubator maker, a

Perhaps one ci If the eggs are vigorous stock, proper handling in the machine, been operated under the sun car leaving the mach ficial assistance any chicks in g ally do ten time other eggs that operhaps better chelped. If the c tience enough to away as much hatching time. chicks are spoiled

The World

What is th uthentic reco authentic reco field for prace

Old Country Markets are Opening to Our Poultry Produce

(Continued from page 8)

mand on the markets of the world. Here Lies Our Opportunity

Here Lies Our Opportunity
As pointed out above, the great war
and the emergency of the hour has
given Canada access to the British
market in a way and to an extent
which, uneer normal conditions,
would have been difficult to obtain.
So grees, in fact, has been the demand for Canadian exers, on account
of the cutting of of supplies elsewhere, that the Canadian surplus has where, that the Canadian surplus has been entirely inadequate to meet the demand. A large part of the Cana-dian storage stocks intended for home dian storage stocks intended for nome consumption have also been exported, and not only have United States eggs been imported to take their place, but large quantities have entered Canada in bond for reshipment to the Old

large quantures have entered vanadar in bond for reshipment to the Old Country.

The British market, however, has not a first provided the provided state of the control of the country to the fact that they are larger as a rule, do not show the shrinkare and can be laid down in better condition. This preference has also been quite evident in the price for quotations, for Canadians have run from two to four cents a dozen higher. This fact, however, has not deterred some Canadian dealers from repacking and shipping quantities of United States exgs in Canadian cases.

Killing the Market

Such practices as these, and the fact that it is known that in some in-

rom page 3)
stances Canadian eggs of decidedly
inferior quality have also gone forward, do not make for stability in
the trade. If the poultry industry in
this country is to amount to anything
worth while, it will not do to leave a
matter of such great national import
matter of such great national import
and the development of the export trade. development of the export trade of a few men
whose angiety to sell good a few men
whose angiety to sell good as

ance as the development of the export trade in the hands of a few men whose anxiety to sell goods sometimes gets the better of their patriotic zeal.

The expansion of the Canadian egg trade along progressive lines is a matter of the greatest economic importance to the whole country. Every effort should be put forth to make this development possible. Let us analyze for a moment what must be done. 1—Production increased. 2—Ouality improved. 3—National standards provided. 4—The quality of the export product regulated and supervised. 5—Adequate transportation facilities of the product of Are canadian poultrymen, canadian producers, going to rise to the occasion and bring about such an increase in production, such an improvement in quality, as will make possible this great achievement?

The Principles of Artificial Incubation

(Continued from page 4.)

If the machine has ever been used before, it should have been thoroughly disinfected with some coal tar product before any eggs were put into it, and the same done between every hatch. Lamps should be filled and trimmed regularly every day, but never before handling the eggs. Kerters at the hands will used up the never before handling the eggs. Ker-osene on the hands will seal up the pores in the eggs, excluding the air, and killing the embryo chick. Regular turning of the eggs every night and morning, after second day, with proper airing as advised by the incubator maker, are very important.

Don't Interfere at Last

cubator maker, are very important.

Perhaps one of the most important points of all is natience at the last. If the eggs are right, from hearty vigorous should be a superficient of the machine, and the machine has been operated correctly, nothing under the sun can help at the last like leaving the machine alone. Any beneficial assistance that may be given any chicks in getting out will usually do ten times as much harm to other eggs that could hatch and make perhaps better chicks than the ones helped. If the operator has not passistictly alone, he should plan to be away as much as possible about hatching time. Probably more good chicks are snoiled in the endeavor to

The World's Best Layer

What is the world's yearly egg record? So far as we have cuthentic records of yield the honor must go to Lady Englantine, a White Leghorn hen owned by the Delaware Agricultural College. She laid 314 eggs in 365 days. When we consider that the average yield is under 90 eggs a year, a wide field for pratical poultry improvement opens up.

rom page 4.)
use some secret to get out the chicks
than one can realize. What every one
should want are normal chickens that
can produce a profit on the feed they
consume. Any that have to be helped
out of the shell will not be likely to
produce a profit, and most of them
will die after a few weeks.
Having the brood out, they should
be kept for at least 56 hours, when
the brooder can be heated to the proper temperature and got ready for the

the brooder can be heated to the pro-per temperature and got ready for the chicks. If the hatch is very large, it it may be necessary to take some of them out to make room, but if all the ergra are not off, this should be done quickly and prevent the drying up of ergra and machine, and the greatest care must be taken to pre-vent the little chicks becoming chill-vent the little chicks becoming the up the matter of brooding.

Rebates to Local Farmers' Clubs (Continued from page 18.)

(Continued from page 18.)
its stock. Profits 'n excess of seven
per cent that are not actually needed
in the financing of the comnany.
have to the form of the locals in
the form of lower of the locals in
the form of lower of the locals in
the form of lower of the locals
to forego their rebates the benefit to
the Central would in time be returned to them, either in whole or in part,
in the form of dividends and the
lower prices of goods purchased.
Thi: There is less chance of suspicion and friction between the members of local clubs and their secretaries or purchasing agents as well
as with the Central office if the locals
themselves pay their officials a stated

as with the Central office if the locals themselves pay their officials a stated salary or commission instead of depending upon the Central to pay rebates uncertain in extent to their

bates uncertain in extent to their officials.
8th: The effect on the whole movement would, it is believed, be better if the returns to the locals were paid at the end of the year in a lump sum out of profits in proportion to their total purchases through the Central.



RIGHT NOW

is the time when you feel the need of a silo most and

NOW is the time to order an IDEAL GREEN FEED SILO

THESE winter days when high-priced hay seems to disappear so fast there is no use kicking because you didn't put up a silo and fill it last season.

YOU must realize that silage would save you a lot on the cost of your feed just now, and that with a silage ration you would be getting a much larger milk flow.

BUT the chances are if you wait till next summer again before ordering a silo, that with lots of green summer feed and your rush of farm work, you may put it off again.

DON'T make that mistake the second time.

ORDER your sile now.

HAUL it home while the sleighing is good.

DECIDE in which plot you will plant corn.

GET the right kind of seed corn ready.

THEN some time next summer when you have a spare day or two you can get your silo up and you'il be all ready for next winter. From the day you order a silo you'll feel a to more easy in your mint you have to better and cheaper feed next fall. feed next fall.

See our agent in your locality. If you don't know his name write to our nearest office. Let us send you our new silo book; free upon request.

DE LAVAL DAIRY SUPPLY CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA MONTREAL PETERBORO WINNIPEG VANCOUVER





and look better.

Dealers Everywhere

The Imperial Oil Company Limited Branches in all Cities

OUR ADVERTISERS ARE GUARANTEED

Every advertiser in our columns isguaranteed to be strictly reliable. Should you be dissatisfied with any deslings with our advertisers we will consider it a favor if you will advise us. Remember that we will stand your loss, provided of course you mention Farm and Dairy at first writing.

breeding best of kett from and poulremoval

successal experi-

1916

nt., who

s in the

red Hol-

who has

with no

ld neigh-

banquet lairy ex-

well on move, so

rator in-

on be on

or's herd e is the

n profits

tock has

of Canwe know,

egistered tle man,

air.

ney. He rhubarb. ot know. his busihe had kkeeping kept achis little way with nd strawand utilwere the ckett has

husiness e farm of ources of lieve, one ctual loss its elimily profit-The only nate and p books. present ...

ow. With-

ning e measure . A low d a high

ot neces-Agriculand Tillrope prorofits per merica is . As the rtain norrage, will s or dur-

"The Incomparable Four"

WE REO FOLK VERILY BELIEVE that Reo the Fifth is, today, the greatest automobile in the world.

CONSIDERED FROM EVERY STANDPOINT—first cost, cost of upkeep, long life—passenger miles per dollar—where can you find value equal to this?

CONSIDER FOR A MOMENT. Here is an automobile the chassis of which has been standard in practically its present form for now six seasons. That alone is a record. Of only one other car in the world, so far as we can learn, can it be said.

REO THE FIFTH IS THE RESULT of the longest and the product of the ripest experience of which the automobile industry could boast. So it was but natural that it should be, from the very first, a wonderful car.

Canadian buyers now receive their Reos direct from the big parent factory at Lansing, Michigan.

We have tried both ways, and we find that we can give our Canadian customers better workmanship, better finish and altogether better value and better service from the main factory than we could from a Canadian branch plant.

The Reo factory at St. Catharines, Ont., will hereafter continue as a service plant. In addition we have established a service station at Winnipeg—1218-20 King Street—where a complete stock of replacement parts for every Reo model ever made, from the first to the latest, are carried, and where Reo buyers in the Western provinces are assured prompt and courteous attention.

With the best class of distributors handling Reo motor cars in Canada, and each carrying in stock such parts as may be needed for replacements, we feel we can now give the very bc.. service possible to our Canadian friends.

Prices quoted are in all cases, net, duty paid, f. o. b. factory at Lansing, Michigan. New catalogue just out—send for one.

THEN THE REO POLICY of improving, refining, perfecting that which we have, instead of trying always to develop something radically, sensationally new, has resulted in this latest model Reo the Fifth, "the simplest car in the world to drive" and the "cheapest car in the world to mintain."

FROM THE VERY FIRST WE REO FOLK CONTENDED that ultimate leadership would redound to that concern which made, not the most novel, but the most serviceable automobile. And that enduring success would be the reward not, of making the highest or the lowest pried car—but the car of greatest dependability and lowest maintenance cost.

AN INVESTIGATION MADE LAST YEAR proved this remarkable fact: that the cost of reprirs and replacements on thousands of cars of this model had been less than six dollars per car per year!

AND HUNDREDS OF OWNERS have written us that they have yet to pay the first dollar for a repair on a Reo—and some of them have owned and driven their cars constantly from one to three years. Just gasoline and oil.

THIS LATEST MODEL has many refinements and improvements over its immediate predecessor. The world moves and Reo moves with it—always in the van.

BODY HAS BEEN REDESIGNED to conform to the latest ideas and to enhance its already graceful appearance. Same width and leg room—several inches wider and longer than most so-called "5-passenger" cars.

ANOTHER GREAT IMPROVEMENT is the location of electric lighting and starting switches on steering post in reach of the driver. Spark and throttle control levers are now on top of steering wheel.

THERE ARE MANY improvements and refinements that the practiced eye will notice and the experienced motorist enthusiastically approve. Each small in itself but all contributing to the excellence of the whole.

YOUR REO DEALER will be pleased to send you a catalog describing the various features more fully.

BUT YOU MUST SEE—must ride in and finally must drive Reo the Fifth yourself to fully appreciate its many points of excellence.

131-E



ングス

YOU NEE

FOR WE
will find
Six in th
MECHAN
put bett
metallur

The fame IT IS NOT Reo fact factories AND IT IS

and fabri Reo orga never sinthe execu ALL WE'V

facilities
AS TO BE
new Reo
engraving
and frien

AND IF YO have since emulate to the style

places as ing as he THE SAMI ability ar Reo work

O) Six

Fashion Plate of -16"

YOU NEED GO NO FURTHER-you need pay no more-to obtain all the mechanical excellence, all the beauty, style, finish and luxurious riding qualities in a seven-passenger touring car, that your heart can desire

FOR WE MAINTAIN that, though you search the world over, you will find no car at any price, that is the superior of this new Reo Six in these essentials.

MECHANICALLY IT HAS NO SUPERIOR—it is not possible to put better materials in a chassis, simply because the science of metallurgy knows no better. Reo uses and always has used the best. The fame of Reo rests on that.

IT IS NOT POSSIBLE to machine parts more accurately—for the Reo factories are admittedly the "Models" among automobile factories and Reo standards are admittedly of the highest.

AND IT ISN'T POSSIBLE to obtain an automobile, in the designing and fabrication of which, more experience has been applied-for the Reo organization is the oldest in the Automobile industry. And never since the first Reo was made has there been a single change in the executive organization of Reo.

ALL WE'VE LEARNED, WE'VE KEPT right here in the Reo factories-and this latest product of Reo brains and experience and facilities is the net result.

AS TO BEAUTY OF EXTERIOR we need only say that when this new Reo Six was announced and its graceful lines shown in the engravings it was instantly hailed by everyone in the trade-rival and friend alike- as the "Fashion Plate" for the coming year.

AND IF YOU HAVE WATCHED closely the various new bodies that have since come out—some of them only too palpably redesigned to emulate the lines of this Reo Six—you have observed that it had set the style for the season.

BUT REO BEAUTY ISN'T on the outside alone—it's in the unseen places as well. In fact none so thoroughly appreciates Reo engineering as he who has studied it most intimately.

THE SAME STURDINESS—the same wonderful reliability, dependability and economy of upkeep—that have made the four-cylinder Reo world famous, are in this Reo Six.

"50 PER CENT OVER-SIZE in all vital parts," that Reo factor of safety is the reason at the same time for Reo dependability and low maintenance cost.

EVERY PART THAT IS SUBJECTED—or may ever be subjected to excessive strains are made fifty per cent heavier-or of better material and therefore fifty per cent stronger—than other makers consider necessary. Motor parts—as crank-shafts, connecting rods, bearings. Transmission gears, driving shafts, axles, differentials—all vital parts are made to the Reo standard "fifty per cent oversize."

SEE THIS NEW REO SIX. Ride in it. Drive it yourself—you can if you have ever driven any automobile. You will say you have never tasted the real joys of motoring before.

JUST A WORD ABOUT DELIVERIES. Those who know are unanimous in stating that there will be a tremendous shortage of automobiles the next few months. Can't be otherwise. Shortage of all kinds of materials and of tools to manufacture them—demand greater than ever before.

SO WE SUGGEST that you decide this matter at once and order your Reo immediately. Then you'll be one of "the lucky ones."

TODAY won't be a minute too soon.

Reo Motor Trucks

Most distributors of Reo Motor cars also handle Reo motor trucks entirely separate corporation, but managed by the same "Reo Folk." Space forbids a lengthy description or specifications of Reo trucks Face forbids a lengthy description or specifications of Reo trucks here. So we'll only say there are two chassis models. For heavy haul-ing the 2-Ton Reo, and for lighter, speedier delivery; the 1500-Pound (34-Ton) Reo "Speed Wagon."

Both are famous for the same dependability and low up-keep that is an attribute of all Reos.

Prices: The 2-Ton Reo chassis, \$2150; the 1500-pound truck with standard express body, \$1500-both net, duty paid, f. o. b. factory, Lansing, Michigan.

Ask for a catalog—any Reo dealer will gladly send you a copy—or write the factory direct.

REO MOTOR TRUCK COMPANY, LANSING, MICHIGAN

131.E



ting that ing radi-Reo the

ED that

1916

h made, And that ighest or ility and markable sands of r year!

hey have

of them

to three ovements eo moves est ideas ridth and

so-called

f electric the drivsteering

the praciastically xcellence catalog

rive Reo ccellence. H.E

a amila

The young man turned on her with

"Never fear, there'll be 'nobody' in Ledington very soon but those who belong to it; but as my next lurking-

TO be what we are and to become what we are capable of becoming, is the only end of life. -Robert Louis Stevenson.

The Messenger Maid

BY HELEN WALLACE

(Continued from last week.)

HILDREN must obey their elders, and speak when they were spok-en to, so she answered Major en to, so she answered Major Wash's questions quietly till, look-ing down into the little snowdrop face, he grew half-asbamed, tough soldier and keën upon his quest as he was, of baiting the child further, and trying to draw from her if she had any subtler errand to the lady of Ledington than the showing of the sampler. He had ensured that no note had been sent with it, and after all they could know nothin- fresh of his plans at

Arrived at Ledington, he even carried his complaisance so far as to conduct Isabel up the corkscrew stair to my lady's chamber door. "Here's little Miss from Calderside

with something to show to your mis-tress," he said brusquely to the starti-ed waiting woman. "She can have ed waiting woman. "She can have ten minutes," and he clattered down the steep stair again.

With her heart drumming and her

tingling from the kiss Walsh had exacted in payment, Isabel Walsh had exacted in payment, Isabel tiptoed across the big bedroom, with its Dutch hangings of hunting scenes in stamped and gilded leather. In a great four-post bed an old lady was

great four-post bed an old lady was sitting up very erect for an invalid. "So we've got a respite," ahe said, with a quick, hard breath. With tremulous steps, Isabel ap-proached the canopied bed, feeling, perhaps, as at that moment she look-ed like little Red Riding Hood paying her famous visit, and, indeed, many older than she trembled before the old lady's keen dark eyes, looking out from under the multitudinous lawn frills of her mob-cap. The sam-pler was examined and admired, but as soon as the heavy footfalls without had fairly died away, her voice and

look changed.

"Quick, child, you've some message, We've only ten minutes; 'tis a wonder he let us have them. Since you've been trusted with it, I'll trust you, too. The one it most concerns had better hear it too."

With her long ebomy-handled staff, the rapped sharply on the wainscot thrice in succession. There was a mercant's nause, then there came a look changed.

thrice in succession. There was a mornant's pause, then there came a laint scratching, like a mouse, behind the panels. The old lady rapped again, and Isabel's dilated eyes opened still wider, for the great gilled stag bounding across the wall in front of her, suddenly disappeared, leaving across the same of the stage of the sta

"Oh!" gasped Isabel, and "Oh!" she gasped again, as out of the darksne gasped again, as out of the dark-ness stepped a tall young man. But Isabel had no longer eyes for the stag, nor any heed for the mystery of the cunningly-hidden door. Her eyes and thoughts were wholly riveted on the

newcomer, and little wonder, for Nigel Maitland was reckoned the "brawest lad" of his time in broad Scotland.

It was not the well-cut features though, nor the curling hair and the handsome eyes, which held the child's gaze, and, all unknown to herself, ungaze, and, all unknown to herself, un-scaled within her the fountain of ro-mance. Rather it was the high dar-ing of his look, the glad, gay courage which danced in these fine eyes, so that, worn and wounded as he was, his entrance from his dark lurking-place seemed to bring a whiff of new life, bracing as mountain air,

A Good Start Toward Helping Mother With the Milking.

reviving as wine into the big, dull reviving as wine into the oig, duri room. Isabel, too young to analyze her own thoughts, gazed open-eyed, the old lady sat more erect among her pillows, her eyes lit up.

"Now, bairn, out with your mesage!" she said sharply. "I'm trusting you far, and every minute's a life."

Thus adjured, Isabel repeated her mother's words.
"She said I was to say that there

must be nobody in Ledington to-night
—nobody but those who belong to it."

The gay, bright eyes were fixed now her earnest face framed in the arlet hood. "And did she say why, on her earnest race framed in the scarlet hood. "And did she say why, little lady?" he asked. "No, but she said it was life or death. I think she's feared of Major

Walsh. He's a dreadful man; he brought me here on his saddle"-with

brought me here on his saddle"—with a quick shiver—'and he'll have to take me back," her voice sinking.
"Tell your lady-mother she's had a brave little messenger, and take her my thanks from my heart for her care of my poor life," said Maitland.
"And so this is what you were to ahow to your granny-aunt?" picking up the

crack on the stout oaken door.

crack on the stout oaken door.
With a little startled cry, "Ho's
come" Isabel lifted her head and then
stared round. The old lady lay back
smiling grimly on her pillows. The
gilded stag on the wall pranced on its
headlong career as before. There was
no dark, narrow door, no wonderful
young gallant with grey eyes and
witching smile. There was only Major
Walsh standing flushed and florid in
the doorway with smoothing. the doorway, with something between a scowl and a smile on his face. Had it all been a dream then?

The cathedral bells were scattering their shower of fairy music over the crowding roofs of the old city of Ant-werp, as on a day in May a stranger strolled across the Place Verte under strolled across the Place Vorte under the flickering spring foliage of the lime trees. He was a man in the middle thirties, and his fine worn face and the commanding grace of his tall figure drew many a glance after the beau cavalier, as the whispered com-ments called him. As his aimless walk brought him opposite the cathedral he paused a moment, then saying to hum-self, "Well, I have cause enough to

sampler, after a question or two had give thanks," he joined the thin brought out the whole story.

"Nigel, are ye daft?" cried the old great south door.

lady from the bed. "He gave us ten minutes. When he comes beak he may bring his dragoons with him, and this him long. Presently he wandered my chamber-door fast against him." the altar seemed but a dim twinkle in the distance; then turning into a little memorial chapel, he seated himself behind the great pillar at the entrance. He would fain be alone with his thoughts, and he had cause enough, as he had said, for thought and for thanksgiving, too.

belong to it; but as my next lurking-place must be the family vault in the kirkyard, you can't wonder I'm in no hurry to seek it. Who, knows but it may be my final refuge, unless Sandy Crear brings his yaw! the sooner round St. Abb's Head. No, no, we'll cheat them yet, "hastily as the aged face changed wordly at his light words. "Ar'd so you are lashe! Cal-Time, the healer, had for ten long years been doing his work. Culloden was but a bitter memory. George sat secure upon his throne, and by degrees the proscribed Jacobwords. "Ard so you are Isabel Cal-der, and you've done all this wonder-ful work," reading the doggerel lines as he turned again to the child. "I ites were being allowed to return to their own country. Among those to whom this boon had been extended as he turned again to the child. "I shall never forget you, Isabel, nor the great service you have done me; and who knows," with a smile, which to Isabel illuminated the room or the world—it was all one then—"who knows but some day I may be able to deliver you from Major Walsh or some was Nigel Maitland, while, thanks to powerful friends, house and lands were to be restored to him. But it would be an empty house to which he would return and a changed countryside. return and a changed conneysite. There was no one of his name to welcome him to Ledington. Calderaide was in the hands of strangers. Then his thoughts wandered back across the gulf of the years to that memorable day, when on a child's warning he had escaped with bare life from Ledington. other dragon. And now promise, you won't quite forget me."
"I never forget," said the child "I never forges," said the child gulf of gravely, and as he stooped over her day, w he took her hands, and kissed one and then the other. Shy Isabel auddenly put her fresh lips to his check, then, darting away, buried her face in the coverlet of the great bed.

"Wher

Where was she now, that child who would be a child no longer? Her fa-ther he knew had been exiled soon Whack! a heavy riding-switch des-cended sharply with a resounding after his own escape, then some years after his own escape, then some years later, when he vas far away in Spain, sighting the battles of France, since he might not fight for his own king, he had heard of Sir Hugh Calder's death. The war over at lat, he had sought is, find the widow and the orbut he could find no trace of them.

The full, crowded years of a soldier's life had rolled on like an effacing tide over these tender memories, yet he had never wholly forgotten a child's had never wholly forgotten a child's pure face, a child's innocent kiss, which had indeed more than once been like a protecting talisman carrying him scatheless through many a wild scene of revelry.

Now on the ere of his return to the old surroundings (he was only waising ter the next packet to Leith) how ter the next packet to Leith) how to the mixt of the mixt of the past, to hin out of the mixt of the past, even to the quaint sampler spread on the big bed in the great glided bed-chamber. But clearest of all was the little trembling figure, and the young steadfast face framed in a scarlet hood. "She must be a sweet maid now, wherever she be," he mused, re-culling the dark wistful eyes. "I never to "get," she had said. Ah, if such a fair, gracious presence had been Now on the eve of his return to the fair, gracious presence had been awaiting him at Ledington or return-ing to the old house by his side, what a different home-coming it would be. Suddenly voices from behind the pillar struck through his thoughts.

"Can I not be alone, even here?" said a girl's voice.

"Pshaw! we are disturbing no one. We must come to an understandingas well here as anywhere else," said a man's deep, hoarse voice.

"An understanding! I have never given you the least cause to misunder-stand me," came the retort, swift and

"You know it is your mother's dear-est wish," went on the man as though he had not heard. "Does that not weigh with you now?" significantly.

"Ah, my poor mother!" bitterly.

"And she thinks she had good reason to urgo it," said the other with the same heavy significance.

(Concluded next week.)

February ****** The U 20000000

Trave

WAS si —Matt. The Exhibition m an educations standpoint. tiful Courts, ther, yet they so separate t be preaching Philippine ba another. Fro onnades, to with its dee glooming bla white, moun

ingly.

A morning

Montesorri

which origina defective and the slums of lightening il given on soc tors, which heart convic hours weighed, me and learn, which thous lives are sav
There was
section in the

ease Hookwe ravages in the world around pathetically s side by side ones. There ing how self en the worn own wrists t the disease of some d effectual. We learned for the terr ern Sea. Hours were

connection w Pensions, a thropies. What a tri Nazarene cei on on a lar fore. Those talent, mone poor, the o

Effort t With th WAS wa interest a Mrs. T. bustled arous meal. While it was attrac arranged wir Just as the towards the piping hot dinner wags tempting m

brought a beers from the Of course, the guest, I tractive dini presence, preparation matter of fa not refrain f husband ar around the ing the not hold andered

916

ghts on inkle in a little ntrance ith his and for

en long King throne, Jacob turn to hose to xtended anks to ds were t would e would tryside.

to wel-Then ross the morable ning m Ledild who Her fa-ed soon

ed soon le years n-Spain e, since n king, Calder's he had the or much, them. soldier's yet he child's at kiss, ace been earrying

to the waiting h) how he back he past, read on read on ed bed-was the young scarlet et maid sed, re-'I never such a return-e, what ild be. nd the here?"

no one. nding— said a e never sunder-ift and

's dear-though nat not antly. od res er with

The Upward Look

Travel Series No. 18 For Humanity

WAS sick and ye visited me."

-Matt. 25, 38.

The San Francisco Panama Exhibition meant much to me, from an educational, ethical, and religious standpoint. There were many beaustandpoint. There were many beau-tiful Courts, so arranged that one could see through from one to ano-ther, yet they were at the same time so separate that Billy Sunday might be preaching to thousands in one, a Philippine band playing in another, or an old-time song concert given in another. From these different Courts one could look our through the Col-with its deep blue water, warships glooming black, yacht salls gleaming white, mountains rising command-ingly.

white, modulating rising command-ingly. Amoning was spent with Madame Montesorti in her kindergarten, which originally was planned for the the alums of Rome. Vivid ones the alums of Rome. Vivid ones the alums of Rome. Vivid ones evily the spent of Rome. Vivid ones given on social nurity by noted doc-tors, which made one realize with heart conviction that ignorance of this subject is not innocence. At cer-tain hours one could see babies weighed, measured and examined, and learn preventive measures by which thousands of precious little lives are saved.

the thousands of pieces in the lives are saved.

There was an intensely interesting section in the Educational Building devoted to demonstrations of the disease Hookworm, which works such ease Hookworm, which works such ravages in the southern zone belt the world around. There were models, pathetically sad, of affected children, side by side with those of normal ones. There were also exhibits showing how self-sacrificing doctors fasten the worm-infested earth to their own wrists to study the progress of the disease and the curative effects of some drug but lately found effectual.

We learned what was being done for the terribly stricken lepers in their lonely island-haven in a South-

Hours were spent in the exhibits in connection with temperance, Mothers' Pensions, and many other philan-

Pensions, and many source possibility that thropies.
What a tribute to Christianity that the work commenced by the lowly Nazarene centuries ago is still going on on a larger scale than ever before. Those that have time, strength, talent, money, and love are giving them for the sake of humanity to the poor, the oppressed, the suffering.

—1.H.N.

Effort that is Worth While

With the Household Editor.

WAS watching with considerable WAS watching with considerable interest and amazement, my friend Mrs. T. as she set the table and bustled around preparing the noonday meal. While the tableware was simple it was attractive, and everything was arranged with an eye to daintiness. Just as the men were heard coming towards the house, she wheeled in the piping hot meal on her convenient dinner waggon, set each dish in a tempting manner on the table and brought a beautiful bouquet of flowers from the living room to add the finishing touch. finishing touch.

finishing touch.

Of course, on account of my being the guest, I supposed that this attractive dining-table was due to my presence. As r.y hostess took the preparation of the meal in such a matter of fact way, however, I could not refrain from remarking before her husband and the boys gathered around the table: "Surely you don't

go to all this trouble every day just for the family!"

"Trouble, and just for the family!"

repeated my friend. "Why, I consider that it makes my work ever so much more pleasing to see the results.

Conducted by MARION DALLAS of my efforts in an attractive table, and it seems to me, too, that the family is of as much importance and

and it seems to me, too, that the family is of as much importance and should receive Just about as much was a should receive Just about as much what a contrast between the ideas of my friend and the ideas of many busy farm women. Too often we allow ourselves to get into the habit of thinking that anything is good enough for the family, and that any extra effort to make things more attractive would be time wasted. After all, though, isn't it "our ain, folk" who deserve our best and not our to have dainty things when visitors come, but should we not endeavor to change cut relevon the somewhat and keep in mind the thought that the family deserves and appreciates the little attractive touches, which really do not require an immense amount of do not require an immense amount of extra trouble if done systematically.

At the Sign of Cupid

A N old-fashioned Leap Year mas-querade would be a good way to celebrate the birthday of Saint Valentine. Send out the in-vitations written in Ye Olde Eng-lish. Enclose in the envelope the following verse, written on a heart-

tonowing very whiten our anear to the property of the fashione, that as often as Leap Year doth return, the ladyes have the privilege of making love, either by word or look, as it seement to them proper. Moreover, every man who doth lightly treat a proposal, shall surely send to the broken-hearted lady a silk dress.

It is a transportation of the property of the p shaped card:

pose to the first man she meets. It he declines her proposal, he must surrender his mitten, but if he accepts he holds fast to the heart and mitten. Accepted couples hold each others hands until a signal from the hostess permits them to drop their mask. The funny situations provide much merriment.

Opinions
A new way of playing this old
game might be used at such a party.
Give the guests a pencil and card.
Ask the men to write on their card
the qualities they are looking for in
a wife. Then ask the girls to write
on their cards the qualities they
are looking for in
a wife. Then ask the girls to write
on their cards the qualities they
provided the state of the completed, let the men try to find their
affinities.

pleted, let the men try to find their affinities.

A Valentine Pantomine.

In sending out the invitations ask each guest to bring a valentine, one which could be illustrated. For a screen on which to show the shadows stretch a sheet (wet the sheet before using). Place a lamp on the floor as the country of the country of



You can't beat

Old Dutch

for taking rust and stains off knives







Save on Winter Feeding

Add a few cents' worth of Pratts Animal Regulator and save dollars' worth of feed. Makes the horses gain every possible ouncs of tood from their food. Puts them in fine healthy it at our risk on our Money Back Guarantee.

Pratts ANIMAL REGULATOR

25c. packages and larger money-ing sizes up to 25 lb. pails, \$2.50

Pratt Food Co. of Canada, Limited, Toronto

The Primrose



BEFORE the Primrose came, cream separators were machines of many gears and bearings, requiring all sorts of adjustments all the time. If you ever owned one, you know what that means. It was tighten this, and move that—adjustments that you never elet quite safe in making yourself. You knew you were losing cream, but couldn't help it, and you found even a wasteful separator much better than hand skimming.

All those adjustments are now done away with. The Primrose is, in truth, a "lone-adjustment" machine. There is only one place where wear affects the work of the Primrose, and that is on the hardened steel point that carries the weight of the whirling bowl. And since this point is made of finest tool steel, tempered much of your time.

Ask the Deering local agent, who sells Primrose cream separators, to show you this machine that anyone can keep in perfect working condition all the time, or, write us at the nearest branch house for complete information. If you're going to buy a separator, you'll never regret the time you spend studying the Primrose. ings, requiring all sorts of adjustments all the time.

International Barvester Company of Canada, Ltd.
BRANCH HOUSES At Brandon, Calgary, Edmonton, Estovan, Hamilton, Lethbridge, London, Montreal, H. Battleford, Ottawa, Quebec, Regins, Saskatons, St. John, Winnipog, Yorkton



there are guests. After all are seat-ed, Cupid appears and distributes the valentines to whom they are adthe valentines to whom they are addressed, the hostess seeing that there is an envelope for every one. The lights are turned out and the man who has No. I is called upon to illustrate his valentine. He goes behind the screen of course. The light is put on again and the "uests write what ever they think he was trying to portray. This scheme is followed until all the Valentines have been illustrated. until all the illustrated.
Choosing Partners

Choosing Partners
A rather amusing way of choosing
partners is to auction off the men,
who for this purpose are all sent from
the room, while each of the ladies is
given a bag of beaus to represent
so many dollars. Two sheets are
fastened across the opening of the
door, being so arranged, that between them the hands and below them
the for the men for sale may be
also and auctions off each man to placed. The auctioner stands on a stool and auctions off each man to the highest bidder, the purchaser judging of the goods merely by the hands and feet.

Cupid is Coming

Cupid is Coming
Players seat themselves round the
room for this game. A leader starts
the game by asying "Cupid is coming," whereupon each one in turn
says, "Cupid is coming ambling," or
amiably, or appropriately, They must
all use some word beginning with
"A." When "A" is exhausted the
game goes on with "B" and so on.
Any one failing to think of a word
must pay a forfeit.

A Village Pest Office
In arranging for a Fair or Social

In arranging for a Fair or Social on St. Valentine, plan to have a sale of Valentines. A corner of the hall may be fitted up to represent a post office. The Valentines may be of all varieties, comic or sentimental, but varieties, comic or sentimental, but be sure and have one for everyone present. There should be enough talent in the society having the affair, to make a mail sufficiently large to meet a heavy demand. Several of the town people might be asked to contribute Valentines, either original or purchased. A charge of five or ten fail. To imaged for handling the mail. To make the property of the letters. Have a placard above the booth stating the time for distribution.

An Evening With Longfellow

An Evening With Longfellow
On the twenty-seventh of this
month a much beloved poet was born,
Henry Longfellow. For those who
wish to celebrate his birthday the
following contest will be of interest;
In the invitation ask the guest to
wear some article indicative of a
title of some of his poems, "The
Rainy Day," "The Arrow and the
Song," "The Black Knight," "The
Children's Hou.", "Hiswatha," are
all easily illus-nied.
The name of his poems may be re-

The name of his poems may be re-called by this contest:

What poem is it that helps to shoe your horse? Village Blacksmith.

The poem that needs an umbrella? April Day.

The poem that carries you across? The Bridge.

The Bridge.

The noem that finds you weary?
The Day is Done.
The poem that keeps you in time?
The Old Clock on the Stairs.
The poem that belongs to the little
folks? The Children's Hour.
The poem that heralds the approach
of night? The Day is Done.

Living pictures may be given from the poems, "Miles Standish." "Evangeline" and "Hiawatha." Parts of the poems describing the pictures and the story between the scenes may be read with a musical accompaniment. These make most interesting evenings for a social in the school or for a literary society.



Why Pay \$100 Too Much For A Piano?

You may do just that unless you first investigate the genuine factory-to-user method of buying a Sherlock Manning. Because we save each purchaser fully \$100 and deliver a quality plano second to none in the world, with a positive ten-year guar-antee, we are justified in calling the

SHERLOCK-MANNING 20th Century Piano

'Canada's Biggest

Piano Value" At least, see the proofs, before spending

Get Our Catalogue Write Dept. 21 for our fine Art Catalogue "P" to-day, It shows and describes all our beautiful models and tells how we save you that

The Sheriock-Manning Piano Co. London (No street address necessary) Canada

SIG TAUGHT FR

Beginners or advanced players. One leason weekly, llustrations made everything plain. Only expense besul \$E\$ per day to cover cost of postage and music seed. Write for Free bookiet which explains everything a full. Imerican School of Music, 76 Lakeside Bidg., Chicago



Wilson Common-Sense Earn Drums
"Luttle Winness Phones for the Earn's require to
medicine but effectively replace with 18 lacking or
detective the heatural eard drums. They are simple
where they are invisible. Soft, asked to controlled.
Write oday for our 160 page 7 REB book on DEAPNESS, giving you full particulars and testimonials.
Wilson Earn Buttle Co., Incorporated
471 Inter-Controlled Buttle Co., UNISVILEE, KU,

GASOLINE ENGINES 14 to 50 H.P.



WINDMILLS Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc. GOOLD, SHAPLEY & MUIR CO., LTD. Winnipeg Regina

February

Reversing this p

All t

HOUSE por Farm issue, go of compactne feels that the mony between this house. I we would find dull gold or corate the wa ing room with meal paper, th buff oatmeal and wash ro carrying the

In the livin serve as dini charm might seat built in suggested in round dining the seat betw plete the deli comfort.

Rich L.
There is a
can sometimes
ly in the si
rooms, becau
fashion, which
tractive in th cathedral finis dish brown co face, which gi dressiness of costliness of wood. A dini four dining cl remainder of be used in th family is sma red willow eas most delightfu over-curtains a have much old tan, to tie them and the willo stained should have a old blue mixtur rags is not to Furnishi

It will incre of the house to bedrooms repea the living room mahogany or with a comfort will be sufficie of these rooms 1916

Too

ano?

fully \$100 d to none year guar-he

Value"

spending

ano Co.

) Canada

REE

ole School shed 1895 r, Barje, Etc.

sson weekly.
Only expense
ge and music
plains every-

Bldg., Chicago

now being redition of deaf-hearing from tarrhal Deaf-unken Drums, Roaring and Perforated, lly Destroyed rom Ears, etc.

rom Ears, etc.
r Drums
se require no
is lacking or
ney are simple
into the ears
i comfortable,
ook on DEAFtestimopials.

SVILLE, KY. INES

O., LTD.



Reversing this picture, we have exactly the conditions in the house described in the Jan. 20th issue

A One-Color Plan

All the Rooms Designed to Blend in One-Color Scheme

HOUSE plan No. 1, published in Farm and Dairy, Jan. 20th issue, gives such an impression of compactness that one instinctively feels that there must be perfect harfeels that there must be perfect harmony between the different parts of this house. In order to either the state of this house. In order to either the state of this house. In order to either the state of the state

out. In the living room which must serve as dining room also, much charm might be added by having a seat built in around the corner, as suggested, in the illustration. The round dining table drawn up beside the seat between meals would complete the delightful picture of solid comfort.

comfort.

Rich Looking Furniture

There is a kind of furniture which
can sometimes be bought very cheapcan sometimes be bought very cheap-ily in the stores and the auction rooms, because it is a departing fashion, which would look very at-tractive in this room. It is called cathedral finished oak and has a red-dish brown color and a polished sur-face, which gives it face, which gives it something of the dressiness of mahogany without the costliness of that very handsome wood. A dining table and three or wood. A dining table and three or four dining chairs of this kind (the remainder of the set of chairs could be used in the bedrooms where the family is small and they are only needed for company) combined with most delightful room. The cretonne over-curtains at the windows should have much old blue and a little of the tan, to tie them to the wall, as it were, and the willow chairs should have seats c. plain old blue linen. The foor, stained brown and waxed, should have a rug of a deep tan and old blue mixture; a home-made one of rags is not to be despised.

Furnishing the Bedrooms

It will increase the apparent size of the house to have the rugs in the bedrooms repeat the general colors of the living room rug. An iron bed, painted the color of the walls, and a mahogany or cream enamel dresser with a comfortable willow arm chair will be sufficient furniture for each of these rooms. Enough variation can be introduced by using different colored draperies at the windows. Really this method of introducing color into a room is not as expensive as it may sound, since surprisingly pretty cretonnes can be purchased at from twenty to thirty-five cents a

yard.
Once again it cannot be too strong-ly emphasized that the charm of a room depends upon those little last lv emphasized that the charm of a room depends upon those little last touches of color—a sofa cushion in just the right shade, a vase, a row of books, a jar of flowers, a beautiful growing plant, a harmonious mat under the lamp. These are the thingr that lift a room out of the thingr that lift a room out of the thingr that lift a room out of the distriction. The second of the lamp. These are the thingr that lift a room out of the grow weary in well-angle expense of the lamb of the lamb. The lamb of the la

Just what these last touches should be depends, of course, upon the room. One woman who had an olive green room that suffered from this lack of something, discovered the solution of her problem to be in a number of tuaint little Japanese tea cups in bright orange which she brought in ouite by accident one day, and kent there permanently be intention, they gave the room such a happy expression.

ion.
The housewife should try the differ-The housewife should try the different soft cushions and vases and pictures she possesses in the room, one to yoo. If they don't positively add to the beauty of the room let her expel them. Then begins the matter of finding out just what the room does want, and here the farmer's wife may think herself greatly handleapped in not being able to visit the big city stores, and she is, to a certain extent. But in the summer the country is covered with color for her to experiment with and no salesman to he fussy about giving out samples. be fussy about giving out samples. The woman who makes a thorough and careful study of nature's color schemes need take no second place in furnishing her home to her city sis-ter, who merely learns of color from the store windows

Lunches for the Rural School THIS is the title of a bulletin that

THIS is the title of a bulletin that has come to us recently, issued by the Department of Home Economics at the University of Nebraska. The idea of the warm lunch at the noon hour has been tried out in some rural schools, and this bulletin deals with some of the results of their experiments. Here are some of

them:
Greater interest in school work has
been shown, better health and less
need of discipline. Increased interest
in home work is also found. Cooking
at school invariably encourages the
girl to do more of this work at home. as school invariages the grid to do more of this work at home. Wherever the mothers and teacher coportate, the results have been satisfactories the results have been satisfactories of the satisfac

room in the preparation and serving of the lunch.

Experience in Nebraska has been that there is a feeling in many quarters that this work will add greatly to the school expense and decrease the value of the regular work. It is strongly recommended, however, that a modest beginning be made, until the interests of the parents on the one hand and the ability of the teacher to organize the work on the other hand, assure the success of its development on a larger plane.

The amount of space and money available, as well as the conditions in a community, must guide the teacher

available, as well as the conditions in a community, must guide the teacher in planning the equipment. A good oil stove with two burners and an oven can be purchased for from \$10 to \$12. A list of inexpensive equipment costing less than \$5, which may be used with a two-hole coal oil stove, but the conditions of the c

1 teakettle, granite	
1 kettle, covered, granite	
1 saucepan (fits in teakettle)	
1 baking dish or bean jar	
1 spoon, long-handled	
1 can opener	
1 oorkscrew	
dorancrow	
baking pan, sheet iron	
1 mixing bowl (crock)	
1 wire strainer, tin	
2 dishpans, tin	
measuring cup, tin	
l egg beater, Dover	
biscuit cutter, tin	
grater, tin	
butcher knife, steel	
paring knife	
spatula	
teaspoons, composition metal	
tablespoons, composition metal	
case fork	
meaden encon	

In the matter of dishes, these may be brought from home, although, if they are the property of the school, they can be uniform, thus obviating any possible distinction between the various homes. The method of obvarious nones. The flecthood of obtaining supplies must be decided by the echool board and parents. Where the school lunch idea has been tried the school lunch idea has been tried for parents to furnish soft and the school of the school in the school of the school of

Always Getting Lost

A Ta certain public school it was the custom for the teachers to the custom for the teachers to the teachers to the teachers to receive. One evening while cleaning a room the caretaker as we written — "Find the greatest common denominator." "Hullo," she exclaimed, "is that thing lost again?"



(21)

Why Not Cut Off the Two Cars of Filler?

It takes 400,000 cars to carry Fertilizers to our farmers every season. Forty per cent. -2 cars out of 5-is Filler. Order higher grades and Nitrate of Soda for your activ Nitrogen and save freight.

The greater producing capacity of high-grade fertilizers without much filler means bigger out-bound tonnage for railroads and bigger purchases by farmers.

Send for "Cost of Available Nitrogen."

DR. WM. S. MYERS, Director 25 Madison Ave., NewYork

Cotton Seed Meal Linseed Meal and Flax Seed H. FRALEIGH, Box. 3, FOREST, ONT.



Reduce Your Roofing Costs, Protect Your Buildings From Fire, Lightning and Weather

You accomplish all these results by using our heavily zinc coated

"Eastlake Metallic Shingles

They give longer service than any other rooting. Cost less to lay, other rooting. Cost less to lay, are rust-proof and do not require painting. Those laid 28 years ago are still giving good service. Send for free book that shows how "Eastlake" shingles make your buildings lightning fire, and weather-proof and why they cost less per year than any other roofing. other roofing.

We Manufacture a complete line of SI set Metal Building Material THE METALLIC ROOFING CO., Livited

King and Dufferin Sta., TC2)NTO



SAVE MONEY AND **BUY YOUR SEED NOW**

Gevit St ndard Per Bus.

No. 1 Red Clover \$17.00
1 Al-yka 11.00
1 Al-yka 11.00
1 Al-yka 11.00
1 Al-yka 11.00
1 I Jimby 1.00
1 Timothy 5.65
2 Timothy 5.65
Kextra No. 1 for purity 1.00
Kextra

Variogated Alfalfa. If Interested write for prices, replain usid on all orders in Onders and Orders in Onders and Orders of Orders Orders

GEO. KEITH & SONS

RIDER AGENTS WANTED



catalogue giving descriptive list of rural books for farmers, stock rais-ers, poultrymen, etc. Write for it Book Dept., Farm and Dairy



-1916 Eggs for Hatching-

AND STOCK FOR SALE.

Houdans, Barred Rocks and R. 8.
Gomb Black Minoreas Winners at Guelph, Toronto, Port Huron, Sarnia, and many Gurotto, Port Huron, Sarnia, and many Gurotto and Winnipog, 2nd to sin, Toronto and Sird pullet, ist and 3rd cockered; 2nd special pullet.

Guelph, 1st, cock; 3rd, hen; 1st, cockered; 2nd special pullet, and 3rd, hen; 1st and 3rd, cockered; 1st, hen; Silver Gup, best display.

Lampton Show, Sarnia, 5st, cock; 1st, hen; cock; 1st, hen; cock; 1st, hen; Silver Gup, best display.

and 3rd, cockerel, best exhibit, four specials.

Egs., pen 1. 85.00 per 15. Pen 2. 82.00 per 15.

Barria, barr

Surnydale Poultry Yards, Highgate, Ontario

PEERLESS Perfection is one of the easiest

fences to erect, because it stays "put." It can be

erected over the most hilly and uneven ground, without buckling, snapping or kinking.

Every joint is locked together with the well-known "Peerless

Lock." The heavy stay wires we use pre-

Hamilton, Ontario



Showing the Graceful Front Porch and Entrance.

An Attractive Small Home

Farm and Dairy House No. 2 is a Pleasing and Compact Little Home

Farm and Dairy House No. 2 is a Pleasing and Compact Little Home

THIS is Plan No. 2 of a special
series that Farm and Dairy has a quirements of the small farm corseries that Farm and Dairy has a quirements of the small farm corseries that Farm and Dairy has a quirements of the small farm corseries that Farm and Dairy has a quirements of the small farm cortage. Planned on the bungalow
an appearance of the small farm corstanding of farm under the standing of farm under
standing of farm under the small of the special knowledge of the small of the special knowledge of the small of the small properties of the small p

House Plan No. 2 is a very simple but delightful little bungalow con-sisting of four rooms and a wash

The back door, which is generally family door and company door, and



GROUND FLOOR PLAN-

practically the only door in use during the winter months, opens into a small back hall, with a view straight into the living room. It was so arinto the living room. It was so arranged in order that it should not be necessary to usher guests through the kitchen before reaching the living room. To the left of the entry is a small wash room where the men, coming in from the field, can wash up and leave their dusty smocks, with-out interfering with the busy house-

The living room is a very pleasant place, with a big bow window at one end a glass door and windows at the other, opening on to a pretty little

the centre of the house and controls all the balance of the rooms. The front entrance enters this room directly from the front proch and a comfortable bow window, that will give all sorts of encouragement for winter flowers, looks out onto the activities of the farm yard. To the right as we enter the living room are two bedrooms, one 9 ft. x 16 ft., and the other 10 ft. x 10 ft., each with the first of the farm yard. To the right as we enter the living room. On the opposite side its grown. On the opposite side its grown of the farming the f as there is very little difference in the cost. A fireplace might well be added at a very little extra cost and without making any change on the plans.

The roof may be of wooden shingles, metallic or composition. The two latter will increase the cost but, in addition to wearing longer, but, in addition to wearing longer, will have the great advantage of being fireproof. The walls may be of shingle or six-inch siding, without difference in cost. Stain or vaint the roof (if wood) a derk bottle green and the walls a soft gold. The vine trellises and the trimmings should be regarded in the state of th painted ivory

The cost of this house complete, in I ne cost of this house complete, in-cluding heating, according to the locality, will range from \$1,500 to \$1,750. This estimate includes a real heating system, not a stove in the living room, another in the kitchen and no real comfort anywhere.

COST OF WORKING DRAWINGS Many Farm and Dairy readers will desire to build this house for Many Farm and Dairy readers will desire to build this house for their own. In order to help them we have arranged to provide the complete working drawings and complete buil of materials (by which any experienced carpenter may erect the house exactly as it is described) for the small sum of \$1.50. Ordinarily such plans cost from \$10 to \$150. Minor changes may be made in the plans by the carpenters if desired. Address all orders:

Farm Buildings Dept., Farm and Dairy, Peterboro, Ont.

****** The Mak department, to matters relating and to suggest

********* Use Suffi

W AR continue the pri the pri Gracey at a rec Western Ontario that has brought blem for the commakers. I find have been decreased rennet used beca price. This poli if for no other refacturers may strength of thei the increased cos of the evil result in the vats are ; the fat globules there is a high lost in the whe good a yield of lation is retarded Mr. Gracey su at the Dairy Sch termine the effect ages of rennet in recommended in the value of the second of the secon

recommended no ounces of renne

Refrigerator I N a report of Guelph during Farm and Dai some experiments

Miller of the Da ice water for kee the farm. We g extensive review One lot of creatwo equal portion then placed in the other submers At 24-hour interval

temperature in be

On an average water was five de perature. It coole ly, the cream wa

Dairy Commi T is doubtful cepting only the juncture in the commanding morproducts of the products of the cold storage is Therefore, the R and Cold storage the fiscal year. 1915, recently issue the storage the fiscal year to the fiscal year ture, Ottawa, wi ceived with mort ention. The Com Ruddick, briefly ence on a visit to dian Government Sixth Internation Sixth Internation held in June, 191 zerland. Returnin found that Cana in the highest por manding even a that of New Zea and unremittent made to capture

dairy products, an

creased in numbe

You Share Our Confidence

RLESS PERFECT

vent sagging and require only about half as many posts as other fences.

Peerless Farm Fence

is made of the best Open Hearth steel fence wire. All the impurities is mane of the sees Open Hearth steer lende wire. All the impurities of the steel are burned out and all the strength and toughness left in. Makes the fence elastic and springy. It will not snap or break under sudden shocks or quick atmospheric changes. Our method of galvanizing prevents rust and the coating will not flake, peel or chip off.

Send for catalog. It also describes our farm gates, poultry fencing and ornamental fencing.

Winnipeg, Manitoba

Agents nearly everywhere. Agents wanted in unassigned territory. The Banwell-Hoxie Wire Fence Co., Ltd.

When you mention "Farm and Dairy" in writing to Our Advertisers.

3, 1916

ttle Home Il the refarm bungalow floor, and cessary in saving in g room is ms. room di-ch and a that will ement for

onto the room are

each with et. There the living

ide is the

the rear the rear e rear en-om large outdoor re enough

necessary. women of house are dge grain g hot air,

n stained. warrant, ference in it well be

cost and

mposition. the cost g longer,

ige of bewithout

paint the tle green The vine

splete, ing to the \$1,500 to des a real ve in the e kitchen

ere. use for

which describ-\$10 to

ters if

Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for disca-

Lagaressassassassassassas. T Use Sufficient Rennet

"WAR conditions have raised the price of rennet," remarked Dairy Instructor Western Ontario factory men, "and that has brought forward a new problem for the consideration of cheese makers. I find that some makers have a support used to be caused on the consideration of cheese makers. I find that some makers have used because of its increasing. have been decreasing the amount of rennet used because of its increasing price. This policy would be unwise if for no other reason than that manuwhen the state of the state of

Refrigerators or Ice Water

Refrigerators or Ice Water

I N a report of the dairy meeting at
Guelph during Winter Fair time,
Farm and Dairy made reference to
some experiments conducted by Miss
Miller or School as to the
transparence of the second of the second of the
merits of the School as to the
transparence of the second of the
merits of the school as to the
transparence of the second of the
merits of the second of the
merits of the second of the
transparence of the
transparence of the
transparence of the
transparence

temperature in both cans were taken.

nere a	te u	e resu	us in it	MI:							
Ref	riger		Ice Water								
Acidity			Acidity	Temperature							
.15	51	degrees	.14	46	degrees						
.22	53		.14	42	**						
.97	50	- 94	.14	- 51	44						
.41	54	.00	.14	58	. 88						
49	57	0	.33	42	. 11						
4.0	6.4	66	44	100	44						

On an average the cream in the ice water was five degrees lower in temperature. It cooled much more quickly, the cream was of lower acidity, and had a better flavor.

Dairy Commissioner's Report

T is doubtful if any subject, excepting only the war itself, at this juncture in the world's history is commanding more attention than the products of the dairy, with which commanding more attention than the products of the dairy, with which cold storage is intimately allied. Therefore, the Report of the Dairy and Cold storage commissioner for the fiscal year ending March 81st. The fiscal year ending March 81st. On the fiscal year ending March 81st. On the fiscal year ending the fiscal year ending the fiscal than the fiscal year ending the fiscal than the fiscal th

The Makers' Corner Butter and Chesse Makers are invited to send contributions to this department, to ask questions on shire and surprised at its ex-

tent.

An interesting report is given in the report of the extension of marketing facilities and of the operations of the Finch and Brome Dairy Stations. Other matters dealt with are the dairy herd records, excess of water in butter, inspection of weighing butter and cheese, the activities of the precooling and experimental fruit storage warehouses, at Grimsby, One end storage progress, sublices. of the precooling and experimental fruit storage warehouses, at Grimsby, Ont., cold storage progress, publications and meetings. An exceptionally full appendix covering minety-six pages, and divided into twelve sections, deals historically with the twenty-five years' life work of the Assistant Dairy Commissioner, Mr. J.C. Chapais, with the work of the J.C. Chapais, with the J.C. Chap

the inspector in weighing of butter and cheese, the whole concluding nearly all the creameries participativith statistics of the total Canadian ed. The main winners were: The exports and imports of butter and cheese for the last 38 years, for the cheese for the last 38 years, for the captoris of creese, butter, cream, condensed milk, casein and fersh milk, and for the last 11 years of the total exports of cheese and butter by all countries.

N. S. Dairymen's Convention

N.S. Dairymen's Convention

The Annual Convention of the
Dairymen's Association of Nova
"Scotia was held in the Agricultural College, Truto, on Jan. 6th and
6th last, and was in point of numbers and interest, by far the best yet
held, and many items of interest
were dealt with. The Association
will apply for special act of parliament to incorporate the Association,
also to have some amendments made
in the Nova Scotia Dairymen's Act.
A resolution was passed recommending that whereas the results of
the experiments carried on by the

mending that whereas the results of the experiments carried on by the Government Creamery at Baddeck and also by other creameries in the Province, tend to show that cream grading is feasible and profitable in Noya Scotia: therefore be it resolved that the Nova Scotia Dairymen's As-sociation recommended the grading The first creamer, butter, exhibition

South River creamery Co. Officers were elected as follows: Pres. D. W. Murray, Scotsburn; Vice-Pres. R. B. McLennan, Brookfield, N.S.; Directors: A. M. Wheaton, Wolfville, N.S.; C. B. De Long, New Germany, N.S.; A. Cameron, Lower South River; Secy-Treaa, W. A. MacKay, Truro; Auditor, C. R. B. Bryan, Truto.

The report of the Superintendent of Dairying showed an increase of 34 per cent in the amount of creamery per cent in the amount of creamery butter made during the year. Two new creameries opened, one is under construction and nearly all the old creameries showed a substantial in-crease. The prospects for the com-ing year are very encouraging.

In the Better Farming Special which recently went through Western On-tario, there was one exhibit of special interest to cheesemakers. There were and also by other creameries in the Province, tend to show that cream grading is feasible and profitable in grading is feasible and profitable in a construction of the province of the provin

Buy a Cockshutt Plow

Any Cockshutt Plow you buy will cost you less in the long run than any other, because it is built of the very best and strongest materials, tested over and over again; it is designed from long, practical experience, so it does its work RIGHT; it will stand years and years of the hardest kind of usage. That's why more farmers want Cockshutt Plows than all other makes combined.



COCKSHUTT ONTARIO FOOTLIFT SULKY

Here's a plow that a boy can do a man's work with.

either wide or narrow bottoms, and either Knife Colter, Rolling or Jointer, as desired.



COCKSHUTT WALKING PLOW NUMBER 21

COCKSHUTT BEAVER GANG PLOW

Three horses and a half-grown boy can do more and better plowing with this light-draft Gang than two good men with four horses and two walking plows. There's your chance to make money! The levers

are very easy to oper-ate, and they give absolute control of your plow and its work on up-and-down or stubborn ground. perfect giant for strength. Supplied in various bottoms, also with Knife or Rolling Colter or Jointer, as

desired.

Without a doubt the most popular walking plow in Canada. The extra leverage given by the long handles makes the work casy. This plow will please you at a glance, and there's more than a man's lifetime of good hard service in it. Knife Coller, extra share and wrench.

Let us send you, to-day, pamphlet and full information about these or any of the Cockshutt Plows, We make 120 kinds, so there is sure to be one to suit you exactly.

THE FROST & WOOD CO., LIMITED SMITH'S FALLS MONTDEAL

COCKSHUTT PLOW COMPANY, LIMITED, BRANTFORD

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

พื_{อออออออออออออออออออออออ} **Estimating Feed Values**

WE are starting to keep feed records in our dairy herd this winter. A difficulty we are up against set the starting of home-grown food. We have a care of corn in the silo, five acres of lar and 35 tons of oat straw. Our home-grown clover and grain has a stated market value, which, minute she cost of marketing, we are obsarging up against the cost of the silo, and the silonest control of the silonest con

weekeekeekeekeekeekeeke valuation at local livery stables, but the cost of delivery is great. The fairest system is to compare the feed-ing analysis of these home grown products with the analysis of the most common roughage marketed— timothy hay. Compare the following: Protein Carbohy-Fat

drates 43.4 Timothy Hay 2.8 Oat Straw 1.2 88.6 urnips 8.1 Mangels Corn Ensilage 1.1 11.8

nangels 1.1 0.4 1.1 Corn Ensilage 9 11.8 figures showing the number of digestible pounds of protein, carbohydrates, fat in each cwt., shows that timothy hay is three times as valuable for feed pound for pound as corn ensilage. If timothy hay has a value of \$12 in the stack. the cows. But how about these other left morthy hay has a value of \$12 in The difficulty mentioned by H. L. C. is an old-one. In some sections turnips have a market value and are shipped in large quantities, but this in the digestion of all the dryer fod-ing value in that its succulence asing value in that its value in that its succulence asing value in that its value in

is altogether different and the silage would not be worth more than 89 or 83.50 a ton. In Ontario at least silage is generally valued at 88.

Managels and turnips are of approximately the same feeding value and only one-half as valuable as-cornionate and the same feeding value and only one-half as valuable as-cornionate and the same feeding of 82 a ton and like the ensilage they have an added value over dry fodder because of their greater succulence.

Oat straw varies widely in price in different sections. In the West for instance, it is often burned to get it out of the way and its value in the stack is and the same than the same feed in the s

Turnips and Butter Geo. Campbell, Renfrew Co., Ont.

Geo. Campbell, Renfreu Co., Ont.

WE have no silo. There are hone
in the neighborhood and if we
were to erect one the cost of
filling it would be prehibitive. But as
soon as a few of our neighbors go
in for silage we will have one.
In the mean time we are not worrying. We grow a large crop of turnips every year. They require more
labor than the corn crops but as a

portionately than the cost price of bran, cottonseed meal, and corn meal bran, cottonseed meal, and corn meal quoted in your letter. I would advise the following daily ration per cow: Hay, 9 to 12 pounds; pulped roots, 20 pounds. If good clean straw is available, I would advise feeding about six pounds of cut straw mixed with the pulped roots, which would take the pulped roots, which would take the place of some of the hay. A good man sixe rungif he composed of the pulped roots which we have the place of some of the hay. A good man sixe rungif he composed of meal mixer might be composed of bran, two parts; fine ground eats, two parts; ground wheat, two parts; co-tonseed meal, one part. This meal should be fed to the cows at the rate, of one pound for every four pounds of milk produced; and to the dry cows and heifers, should be fed as needed, depending on the growth and condi-tion of the animals. For the future I would advise that this farmer grow from 160 to 200 bus. of turnips or mangels a cow per year, unless he intends to supplement some

of turnips or mangels a cow per year, unless he intends to supplement some of the roots in the future with corn ensilage. I would also suggest that in the case of shortage of roots this year, that molasses fed at the rate of about two to four pounds a head per descriptions of the result of the results of the roots o day sprinkled over the cut straw or hay would act as a good substitute.— E. S. Archibald, Dominion Animal Husbandman.

Distribution of Live Stock

THE prosperous farmer of the future will be the live stock farmer and the Federal Live Stock Branch would like to see this line of farming extended to all sections of

Some of the Stable Mates of Rauwerd Count DeKol Lady Pauline. "Rauwerd" is Canrda's nearest approach to a 30,000 pound cow. In the illustration may be seen a group of fillierest floitesins, snapped by an editor of Farm and Dairy late one fall before "flauwerd" was as famous as he now is

may be seen a group of Hillerent Rolateins, senspeed by an editor of Jerm and Dalry late one fall before "Rawwert" was as famous as she now is.

feed for producing milk and keeping feed for producing milk and keeping feed for producing milk and keeping of stock in some sections and a great by the producing th

Feed for Winter

I MAYE only about 300 or 200 bushed on the control of turnine to feed to five owns and twe helfers through the winter. I have plenty of hay, perhaps five or six tons to sell. Would it pay me to turn that hay some oats and wheat to grind but not heavy enough. What kind of feed would be best to buy? Brans is \$1.5 a ewt.; ox have some oats and wheat to grind but not heavy enough. What kind of feed would be best to buy? Brans is \$1.5 a ewt.; ox have some oats and wheat to grind but not heavy enough. What kind of feed would be best to buy? Brans is \$1.5 a ewt.; ox have certainly kept faith with the farmers and "airymen and in fact included all branches of rural institute of the farmers and "airymen and in fact included all branches of rural institute of the farmers and "airymen and in fact included all branches of rural institute of the farmers and "airymen and in fact included all branches of rural institute of the farmers and "airymen and in fact included all branches of rural institute of the farmers and "airymen and in fact included all branches of rural institute of the farmers and "airymen and in fact included all branches of rural instituted all branches of purchase but the farmers and "irrymen and in fact to the fa



519 Notre Dame St. W., MONTREAL

41 Dock St. ST. JOHN

1139 King St. W. TORONTO

Februar

A Yo

THE BRANTI THE Brant

THE Brant Wednesds crowd, an number of bu have been higher were fair a little better wery little of a built wenn all were not buyers. The numbered at leade. Mr. chan been carrying on a 25-acre it restock. The control of \$452.9, average of \$422.9, average of \$422.9, average of \$22.9, average of \$22.9, average of \$24.9, average of \$24.9

land
O. C. Haviland
Abbskerk Mercens
Cainsville; Maud
George Clark, Bra
8140, W. M. Mills,
Lewis Kelly's Cos
8160, J. S. Dippel,
thilde, 8145, Robes
Pontiae, 8140, H. D

ost price of d corn meal would advise n per cow: ped roots, 20 raw is avail eding about would take ay. A good nd oats, two parts; cot-This meal at the rate, ir pounds of the dry cows

3, 1916

as needed, advise that to 200 bus.
ow per year,
ement some e with corn uggest that f roots this the rate of a head per ut straw or substitute.— ion Animal

Stock er stock farm. Live Stock this line of sections of



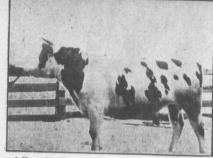
illustration of Farm and w is.

re a surplus and a great seding ani-To facili-rplus stock, nion Live unces that of farmers wishing to e of breed-from some ry, the Develling ex-nted repre-required to ansport the Live Stock

a suitable to accomand assist buying and sons wish-this offer nents with nerts with ner as to ase before tative.

faith with rural in-started to

We feel We feel e to make the weeks The mon-interesting er, Mark-



A Young Sire That Will Add Much Value to His Offspring.

King Lyons Korndyke is at the head of the large hard of C. E. Treblicock of London, that is to be dispersed at public auction on Fob. 10. He is a son of the great King Lyons Hengerveld and out of Ledia Korndyke and with 24 lbs. Sons and daughters and females to freshen from him are in the saic.

THE BRANTFORD SALE OF HOLSTEINS

THE BRANTFORD SALE OF HOLSTEINS

THE Brantford sale of Holsteins on
Wolnesday of last week drew a large
with were a goodly
number of buyen which were a goodly
number of buyen which were a goodly
number of buyen with the sale to have been high, but all thing the sale to
have been high, but all thing the sale to
have been high, but all thing the
have been high, but all thing the
have been after shape than last year but
had been sale to be sale to be a sale
all were not held in greater esteem by
buyen. The consignment sale this year
leading why some really good individuals
were not held in greater esteem by
buyen. The consignment sale this year
leading a small herd of Holsteins
on a Sacre farm sold 10 head, his enoft he sale.

Fifty-five females brought \$7,000, an average price of \$125. Beeve males brought
\$62.50, average of \$235. Bevon males brought
\$62.50, average of \$235. Bevon males brought
\$62.50, average of \$235. Bevon males brought
\$62.50, average of \$235. Bovon \$187,005, on Ily
consignments the results were as follows Charles A. Steedman, Brantford, 10

By consignments the results were as fol-

search price of \$12. According to \$10. According to \$1. A

O. C. Haviland's Consignment—Flowie
O. C. Haviland's Consignment—Flowie
Abbkerk Mercens, 8200, W. G. Brown,
Cainwille: Mand Schuling De Kol. 3110,
George Clark, Brantford; Borel Korndyke,
Sto, W. M. Milk, Vanessa,
Lowis Kelly's Consignment—Dandy Polly,
Lowis Kelly's Consignment—Dandy Polly,
Hollide, 816,
Dept. Walkerton; Jude Mechhild, 816,
Dept. Walkerton; Jude De Kol
Pontiac, 8140, H. Dyment, Dundae.

W. G. Balloy's Consignment-Lakeview Countess Chase, \$155, John S. Smith, Mil-grove; La Vata De Kol, \$150, A. Todd, J. H. Taylor's Consignment-Artis Cornu-copia Mechthide, \$155, Jr. Orffilli, Tre-man; Doris De Kol Korndyke, \$155, J. S. \$150, Doris De Kol Korndyke, \$150, J. S. \$150, Doris De Kol Korndyke, \$150, Doris De Kol \$150, Doris De Kol Korndyke, \$150, Doris De Kol \$150, Doris De Kol Korndyke, \$150, Doris De Kol \$150, Doris

Service Monarch, \$130, George T. Pack-ham.

Thomas W. Craig's Consignment—Alta Stienstra Bees, \$500, J. A. Campbell Brandstienstra Bees, \$500, J. A. Campbell Brandstransford.

Pietertie, \$250, Ed. Roberts, Brandford.

J. H. Shellington's Consignment—Johanna Korndyke Grant, \$135, J. H. McGorna Korndyke Grant, \$135, J. H. McGorCaldwellerman; 1da Korndyke, \$155, John
C. Duff Nellee cow, Inka De Kol Poseh,
sold for \$450 to Robert Gediel, Paris; Wcj.

Louis Farington, Parington Hill.

Desire Fafor's Narona, \$150, to W. Farrington, Farrington Hill.

of the best prices realized were as folhablecker Maid, \$185, C. F. Supris, Mill,
Abblecker Maid, \$185, C. F. Supris, Mill,
grove: Pussie Bontale De KJ, \$170, H.
Berge, Downstew: Pietertje Mercedes
Mechthilde, \$165, James Stuart, Guielph,
Norine Waxie Mercedes Waxns, \$145,
Neil McLean, Rock Mercedes Waxns, \$145,
Neil McLean, Rock Mercedes Waxns, \$145,
Neil McLean, Rock Mercedes, Star, Millgrove,
Pietertje Mercedes Gretqui, \$110, J. A.
Gartley, Puslinch Bettina Waxns, \$160,
J. E. Thomas, Guielp Mercedes, \$150,
J. E. Thomas, \$150,
J. E. Thomas,

In a report of the recent Ayrshire sale at Tillsonburg Farm and Dairy stated that the cow, Violet of Fairview, sold for 8152 99 to J. J. Jamisson. This should have read "Violet of Fairview sold for 8217.50 t) J. B. Ross, Meadowvale."

The Farmers' Grain Exchange

Strong Vigorous Seed is the Start for a Big Vield

O. A. C. No. 72 OATS FOR SALE -

Grown from the best of my handpicked stock, carefully wedded while growing. The season of 1915, not only at Guelph where the yield weeded while growners are the next highest begins 10 binshels less, but all over Ontario 5. A. C. 72.

My experience last yearleys, for both quality and quantity.

My experience last yearleys, for both quality and quantity.

My experience last yearleys, for both quality and quantity of the possible care to produce seed of high tempting for after exercising the greatest possible care to produce seed of high tempting for after experience and the growers willing to pay 20c to 30c per bushel more than for ordinary clean seed, and did not have enough to fall the orders.

A. FORSTER.

O.A.C. No. 72 OATS

FOR SALE—Good Clean Seed, true to name, selected from prize winning field a year ago. Price 80e per bush.. F.O.B., Woodville, Sacks free.

R. R. No. 4 Woodville, Ont.

GOOD PLUMP, CLEAN SEED O.A.C. No. 72 OATS

Carefully weeded while growing, price 90c per bushel. Samples sent on re-quest. 16 oz. Cotton Bags, 30c extra. EDGAR BRODERICK, R. R. EXETER.

North Gower Registered banner Oat Centre

WE ARE OFFERING

5,000 Bus, of Improved Banner Oats at 90c. 3,000 Bus. of Registered Banner Oats at \$1.00 per bus. f.o.b. Osgoode Station-

For further information apply to A. J. CRAIG, Secretary - NORTH GOWER, Ont.

Mess

MALLORY'S

Strawberry Plants

Best Early and Late Varieties for Home and Market.

High Grade Planta Hight Prices. Send for Price List and Cultural Instruction N. E. MALLORY

BLENHEIM, Ont.

-CLOVER AND GRASS SEEDS-We have the quality Red Clover, Timothy, Aside and Affalfa. Buy your supply NOW. All our stock Government Graded. Our EXTRA No. 1 and the only into the buy white us at once for Samples and Price Last as the Sample Sampl

The Next Insertion of

"The Farmer's Grain Exchange"

Column will appear February 17th.

Do you need Seed Grain? Then get in touch with our Growers herewith. If you are a Grower of Seed Grain, Corn, Potatoes, etc., write us to-night about being represented in that number.

Farm and Dairy

Peterboro, Ont.

- CORN -

IMPROVED LONGFELLOW, WISCON-SIN NO. 7, WHITE CAP YELLOW DENT-This corr was selected in the field by competent men, as fast as husked, then placed in crips, to dry, and is now in fine condition for seed. Write for prices.

Reliable Seed Corn

"The Best is not too good."

All my customers were satisfied last year. I want to satisfy more this year. Order early. Supply limited. EDWARD WARWICK, BLENHEIM, Ont.

To the Corn Growers of the Dominion

Not since the case 1570 has there been so lict. We want to be not seen that the case 1570 has there been so lict. We want to summer followed by an early frost found 50 per cent. of the Northern zone strong to the case of t

The selection of seed is made by competent and experienced men in our employ. Our seed houses are modern and up to date in every respect. Consequently the corn is true. Finding grown, which other things being equal, has a distinct advantages over corn grown for distinct advantages over corn grown for in many instances sellers of media in many instances sellers of media know nothing whatever respecting its quality, having had it grown for them on, contract.

quality, having had it grown for the quality, having had it grown for the no contract.

Note with the adding the adverse weather. Note with the contract of th

WALKER BROS., Proprietors, Essex Farm, WALKERVILLE, Ont.

Kol 2nd, with ries the best in this breeding good prices a Breeders who a herds or to pic

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the leading exponent of dairying in Canada. The great majority of the members of the Canadian Holstein - Frenian Association are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

RIDEAU STOCK FARM OFFERINGS.

NINE versus and a state of the control of the contr

Korndyke and out of the 25.65 dam. Happerson there did the 25.67 dam. Happerson here are did the 25.67 dam. Happerson happerson here did the 25.67 dam. Happerson happerson here did the 25.67 dam. Happerson happerson here did the 25.67 dam. Happerson happerson happerson happerson happerson happerson here did the 25.67 dam. Happerson happerson

Always on the Job Buy fence and protection at the same time. Get away from the idea that wire fence is nothing more than a few wires fastened together; because you'll find in "FROST FENCE" that the wires are put together in such a practical way that "SERVICE" is the outstanding feature. Also that the spacings of laterals and stays are just as they should be for the different styles. You'll find that the "FROST" lock binds more securely, and yet, does not put a weakening kink in the horizontals, as is necessary in other ready woven fences. FROST FENCE FIRST We not only make our ready woven fence; but for four years we've made and galvanized all the wire that goes into it. At that time we installed complete wire mills, believing that we were equipped for ten years at least; but the immense popularity of "FROST MADE" Wire has made it necessary to put up another Mill that will double the capacity. This new Mill is now ready for operation. That is why we know FROST WIRE is good, and that it has the proper hardness, the full 9 gauge and just the amount of galvanizing that will best withstand the rust and still not be so heavy that it will crack off. Woven Fences and Gates for farm use. Plain Wire and Staples, also Ornamental Fences, Wire and Iron, and complete fence supplies. New catalogue just from the printers. Get one. FROST WIRE FENCE COMPANY, LIMITED HAMILTON, CANADA

do well to be reach the farr Dundas street o ******

MAI ÷20000000

TOBONTO, turns of the transition of the statistics office the returns of account of the statistics of the season of 1 statistics of 1 statis

Wheat has be some months rather a contrarather a contra

The situation ket is similar good demand, go ping face and the situation of the farmers shipping made is almost certain dispersion of the farmers shipping made is almost certain defended by the situation of the farmers shipping made in the situation of the situ

Holste

N. MONT LINDSAY 1916

a private and 1000 ll in the last 10,000 ll in the last 1000 lest 1000 lest

g

r

ø S

d

a-

ne

Hengerveid and out of Lydis Korndyke De ing. Bear in mind that the other stock Kol 2nd, with 3d lbs. This sire thus carries the best in Holsied breeding. It was ann. Lunch served at noon. T. Merritt this breeding that brought particularly good prices at the recent Bollert asle. Of the sale are-450 or under cash: eight Breeding who are looking to enlarge their decided by the sale of the sale are-450 or under cash: eight do well to be on hand on Pch. 30h. The allowed for cash on all items over \$10 paid the day of the sale. The catalogues Dundas street car (sast) getting off at the Asylum ciding, where ries will be wait. London, Ont. E. Trebilcook, R. E. No. 6,

MARKET REVIEW AND FORECAST

TO GRONTO, January 31.—The final returns of the grain crops of Canada for 525 and for 152 and for 152

comprising grain crops \$56,161,90, points to the comprising grain crops \$56,161,90, points of the comprising grain crops \$56,161,90, points of the comprising grain crops \$56,161,90, points and the comprision of the Atlantic there is a good supply of wheat, a good demand for it, but, comparatively speaking, no ship of comparativ

at 3.9; No. 3, 8.12%; Ontario wheat, too, has advanced: No. 2, 81.4% to 81.6; sightly expressed in the state of the state

20012 1												1	ávi	8	Dre	188	ed
Old fowl	,	1	20	u	'n	d						.13c	to	15e	15c		
Chickens												.14e	to	180	18e	to	
Turkeys															25c		
															16c		
Geese												.10c	to	12e	170	to	19
	р	m	æ	4	-		٠.	ďι	•	٠	10	TT. 1	n 10	4 57.0			

THE GREATEST AYRSHIRE PRODUCERS

THE GREATEST AYRSHIRE PRODUCERS

THE 4st annual meeting of the Ameriwas held at Holleders' Association, the property of the Ameriphia, Pa. with over 100 members and friends present. The report of the French phia, Pa. with over 100 members and friends present. The report of the French with four records that most astifactory, with four records that most astifactory, with four records that the first and first

lass, Lily of Willowmoor, owned by J. Slise, Redmond, Wash., finished her Clise, Redmond, Wash, finished her five consecutive years' record, making 8,493 pounds of milk and 5,52,36 pounds of fat, making her the world's long distance champion of the breed.

There was great enthusiasm in the meet-ing over the progress the Ayrshire cow is making, and steps were taken to give her more publicity, and to provide funds for foling it.

AVONDALE HOLSTEINS

We are running our first batch in official tests and daughters of Kind Pontica Artis Canada. The first is making
to Artis Canada. The first is making
over 19 to over 20 lbs., and have twenty
more to Treshen. We have a dosen
splendidly bred young bulls of all ares
and anne, some as high as over 30 lbs. We
need the room, and are offering these
need the room, and are offering these
need, the property of the control of the conaddired by the framous 4th, bull. Anaddired by the framous 4th, bull. Anaddired by the framous 4th, bull. Anactived Piettle, with a 3r. 2yr.-old reoord of 2749 lbs., the second best of
All bulls (except the one) sired by
King Fontiac Artis Canada and our 35
lb. bull, Woodcrett Sir Clyde.

H. LYNN, R. Bresto, S. Breckville, Ont.
H. LYNN, R. Bresto, S. Breckville, Ont.
H. LYNN, R. Bresso, S. Breckville, Ont.
H. LYNN, R. Bresso, S. Breckville, Ont.

H. LYNN, R.P. No. 3, Brockville, Ont.

MAPLE FRONT FARM offers for sale a grand it to head any herd, the dam a 23 lb. 4-year-old; the sire, Ourvilla Sir Teake Colantha, of whom you have all heard. Priced right by applying to

Wm. J. BALD, R.R. 2, MITCHELL, Ont

ADVERTISE in these popular columns which others find so profitable. It costs you only \$1.68 an inch

AYRSHIRES

Neidpath Ayrshires Bulls of all months. Oldest by Duke of Ayr, son of ex-Champion R. of P. cow (record 16,166 bbs. milk and 760 bs. Buttler); others by brother to Champion R. of P. two-year-old heifer record 14,131 bs. milk and 70 fbs. butter, the lock of Ayr.

1 bother individual from R. of P. cows and at reasonable prices in the record 14,131 and 15 fbs. milk and 75 fbs. butter, the lock individual from R. of P. cows and at reasonable prices in the record 14,131 fbs. milk and reasonable prices in the record 15 fbs. milk and 1 at reasonable prices.

W. W. Ballantyne & Son, R.R. 3, Stratford, Ont.

- LAKESIDE AYRSHIRES -

A select lot of young bulls, all ages, sired by Auchenbrain Sea Foam (Imp.) 35758 (8865), Grand Champion at both Quebec and Sherbrooke, from Record of Periormance Dams. Write for catalogue. Proprietor

GEO. H. MONTGOMERY Dominion Express Bldg., MONTREAL D. McARTHUR PHILLIPSBURG, QUE.

- Watch Our Ad. for the Next 6 Weeks-OFFERING No. 2

Sir Pohtiac Keyes, age 15 months. His DAM is a daughter of Pontiac Hermea. Her dam, a sister of Lulu Keyes,
His SIRE, a brother of May Eche Sylvia. A good combination of blood in a good individual. Price \$100, delivered anywhere in Ontario.

S. B. MALLORY, Bayside Stock Farm, BELLEVILLE, Ont.

HOLSTEINS FOR SALE Four or five Bulls ready for service Apple Korndyke 8th and several by King Segis Pontiac Duplicate—one of the best. R. M. HOLTBY R. R. No. 4. PORT PERRY, ONT.

CATALOGUES FROM

Lakeview Stock Farm, Bronte, Ont. Breeders of high-test-me Holatoin-Friedran foundation' herd, consisting of 1 male and 5 females, all beed in the purple and backed by officially tested dams. Terms to suit purchaser. An DAWSON, Monniter P. 103 (E. Prompteter.

___ VILLA VIEW HIGH-TESTING HOLTEINS _ Now is the time to buy a son aired by King Segia Aleartra Calamity, the \$2000 55-lb. show buil, sired by the \$50,000 buil. Only three youngsters, three months below the prices that should more them quickly be you know that the 1915 Guelph. Chapter at a cour farms to be bred to King? Send for Pedigree and Prices. SEBRINGVILLE

Sure You Will Come. You Cannot Stay Away From The Best Yet! 45 Head 45 Head Holsteins' FIFTH ANNUAL SALE OF THE SOUTHERN ONT. CONSIGNMENT SALE CO. Holsteins

At Meharg's Feed Stable, TILLSONBURG, Ont., TUESDAY, FEB. 8th, 1916, at One p.m. sharp Porty-five head of Choice Hoistein Cattle, nearly all females; also a few Choice Bulls and Bull Calves, some of them good enough to head any herd. Cows with recommendation of the state of

Time up to eight months will be given responsible parties with interest at 6 per cent. Send for catalogue. Come to the sale, and enjoy yourself.

N. MONTGOMERY LINDSAY & POUND | Auctioneers

R. J. KELLY, Sales Manager

CULLODEN, ONT.

Hillcrest **Ormsby Count**



HIS DAM is Rauwerd Court De Kol, 29,017 lbs. milk in one year; 1132,5 lbs. Butter. The Canadian Champion Cow for both milk and butter at 4 the World's Record for 8 months.

HIS SIRE is fix Admiral Ormsby, Canada's Champion Sirs, who produce Jenny Bonerges Ormsby, 33.60 lbs. in 7 days, who holds the World's Record in making 30 lbs. in 7 days for 5 successive days and going over 100 lbs. milk per days.

We are offering several Sons and Daughters of this sire—backed by World's Records on both sides. If you need a sire or founda-tion females with such breeding, write us for prices, etc.

John Willoughby, Stock Farm Bell Phone Smith's Falls, Ont.

— AUCTION SALE — Registered Holstein Cat

be held on the Grange Stock Farm, one mile from Listowe

ON FRIDAY, FEBRUARY 18th, 1916 Nearly all the Cows of milking age are officially tested, some with high re-cords, z-year-olds nearly freshening, one-year-olds and heifer calves.

Catalogues Now Ready C. F. VAUDRICK, Auctionees I. H. LIDSIT, Sales Manager W. S. SHEARER, Prop. -R. R. No. 2, LISTOWEL, Ont.

- Head Your Herd With This Breeding -

We are offering a male calf, nine months old, well-bred, well-marked, wellgrown, of good type and conformation. His dam gave 19650 lbs. milk in one year. grown, or good type and conformation. His dain gave 1900 103. Bills in one year. She is a half-sister of May Echo Verbelle, 25.67 lbs. butter in seven days. His sire is from the same sire as May Echo Sylvia, the world's greatest milk producer giving an average of 115 lbs milk per day for 120 days. His sire's dam is a half-sister of Victoria Burke, 30.61 lbs. butter in seven days.

If blood counts, here it is, backed up by championship records. Address enaniries to

JOHN DURRAN - R. R. No. 1 - CAMPBELLFORD, ONT.



GLENDALE STOCK FARM offers for sale Sis, Bulla (Imp.) His first five sons and daughters at an average age of fourteen months, sold in Documber, 1914, st. Syracuse, for 2818s. Danie of bulle carry may be off, though of the great of the care. "May School Syrive as an "Lattu

yes". Also entire crop of Winter and Spring Calves. Full particulars on application to

WM. A. SHAW R.R. No. 1 FOXBORO, Ont.

For Sale, Choice Young Bulls, sired by King Johanna Pontiae Korndyke, a grand-brother of Pontiae Lady Korndyke, 38.02 butter idd's cord when made. Also females bred to CALEDONIA. ONT. RIVERSIDE HOLSTEINS son of Pontiae Korndyke, and a bro in 7 days, 156.92 lbs. 30 days—world's "King" J. W. RICHARDSON

HOLSTEIN BULL-NINE MONTHS OLD Dam Schuiling Lenna; Sire Elmwood LeoPontiac. No better or more productive strain procurable—a fine thrifty fellow, nicely marked. More white than black \$60.00 for a quick sale.

A. A. POWERS. ORONO, ONT.

PRINCE EDWARD ISLAND
PRINCE CO., P.LI.
RICHMOND, January 24.—The weather keeps mild: we had some snow but it is all golo, and just now there is poor getallocated by the property of the prope

CARLETON CO., ONT.

ONIAHIO

CARLETON CO, ONT.

BRITANNIA BAY, January 24.—The weather is very changeable, a few cold was a constant of the consta

OUR FARMERS' CLUB

Correspondence Invited.

PRINCE EDWAND ISLAND

PRINCE CO., P.E.I.

PRINCE ALBERTA

PRINCE SUMMAN ISLAND

PRINCE S

ALBERTA

HORSE HILLS DIST. ALTA.

HORSE HILLS DIST. ALTA.

HORSE HILLS JAM. 54-Well, here we are inserting our machinery regarder for another season. We are having very sold weather, the soldest this sistrict has seen in many years. Since Jam. 10 to 30 decrease help were, and wind. Last week we had it 50 for three days, then it got a little milder, but it sure la winter, but with very less you drive in the ditch. There has been no harm done as yet with the exception of a few noses, and I think nearly even the second of the second three second is so the rise. Oats, 250; butter, 360; eggs, 560; hosp, brisk, at 8-50; butter, 360; eggs, 560; hosp, brisk, at 8-50; butter, 360; each—d.E.T.

BRITISH COLUMBIA HORSE HILLS DIST., ALTA.

BRITISH COLUMBIA NEW WESTMINSTER DIST., B.C.

NEW WESTMINSTER DIST. B.C.

CHILLIAWAGK, January 20.—The first
half of January was cold with a few
inches of move, and the second of the secon

TILLSONBURG SALE OF HOLSTEINS

into weather, one of the longest January than the been for years no smooth of the control of the



COMPLETE DISPERSION SALE

Complete Farm Head REGISTERED HOLSTEIN



Swine, Poultry

At my farm, two miles from LONDON. As the farm has been leased for a number of years, every animal and all my farm machinery, will be sold without reserve. My fifty bead of Holsteins are nearly all my own breeding, with the exception of a few foundation animals. They comprise the blood of many of the best sires in Ontario, and include 10 splendid mature cows. The young breeder who needs good material for his berd, should not fail to be on hand at 1 p.m., Feb. 10. Three required depress are also in the sale—we to be freshen distrily.

Among the other stock are 6 young horses, a 2yr.old Percheron gelding, a team of 5 and 6 Clydes, and a 4yr.old filly. There are also a mature Yorkshire and some younger brood sows, and a large flock of Poultry.

and some rounger proof sows, and a large flock of Foultry.

The Farm Machinery is such as would be required on a large farm, manure spreaders, binders, mowers, waggons. Machinery and Farm Equipment will be sold at 10 am. The sale of Hosteins begins at 1 pm. Write for catalogue, and note the breeding of my herd.

TERMS: Sis and under, cash. Eight months' credit on bankable paper over this amount. A 5 per cent. discount will be allowed for cash on all items over \$1.00 per cent.

C. E. TREBILCOCK

T. MERRIT MOORE Auctioneer

R.R. 6, LONDON, Ont. -

A Good Sire G

One of our Mr. R. M. Ho writes as follo

"I have just advertised, to Wolfe Island, will drop that will save me so The fame of gradually externed of the Domin breeders are so the sire in que lb, dam, and w 25-lb. 3-yr.-old.

Many other g mand by read Dairy, both to and to place a grade herds. I sale, write us t ing prospective

7 days, and si L. H. Lipsit

Lipstit's comments to the control of side. These helfers in value very fast, grand daughter of z over 15,000 lbs. mil daughters of Idalina Lipsit has sold 15 c average price of right quality. The be treated before time. The other is a Also a few other g R. J. Kell

who has proven here

14 COW in

OUR OFFER

WILBI

A Good Sire Goes to Wolfe Island

One of our prominent breeders, Mr. R. M. Holtby, of Port Perry, writes as follows:

writes as follows:

"I have just sold the 25th, buil
advertised, to Mr. H. E. Tarrant,
wolfe Island, Ont., so that if you
will drop that part of my ad,
will save me some writing."

The fame of the Holsteins is
The fame of the Severy part
of the Dominion, to every part
of the Dominion, to the control of the
preders are securing a good one,
the size in question is out of 25th, dam, and whose sire's dam is a
3-3-y-old.

25th. 3-yr.old.

Many other good sires are in demand by readers of Farm and Dairy, both to head pure-bred herds and to place at the head of high-grade herds. If you have sires for sale, write us to-night about reaching prospective buyers.

hind her at by Lodge two of the best daughters that can be shown by any cow in the herd. Prince we shown by any cow in the herd. Prince we will be a cool buy for in the herd. It all a fine son of K.V.I., nearly white fault, and so make type of the son of K.V.I., nearly white fault and so a credit to whoever gote bull and be a credit to whoever gote bull and be a credit to whoever gote bull and be a credit to both seller and bullyer. The accredit to both seller and bullyer. The accredit to both seller and bullyer. The accredit to take the same than the seller to the sell

A GREAT CANADIAN HOLSTEIN HERD

in 7 days, and sired by a grandson of Calamity Jane.

Li H. Lipsiti's Consignment.

Lipsiti's consignm

3rd ANNUAL SALE

Head



Holstein-Friesian Cattle

SIMCOE, WEDNESDAY, FEB. 16th

At ONE p.m.

The sale will be held just North of the Air Line Station, at barns of J. A. Wallace.

The offering is females only, and is by members of the Norfolk Holstein-Friesian Breeders' Club. Near the back of the catalogue will be found Ads. of Young Sires for sale.

TERMS: Cash, or credit on Bankable paper. Send for catalogue to Secretary of sale.

JAMES DUNLOP Auctioneer

WALLACE H. MASON Secretary

R. R. No. 4 - SIMCOE, Ont.

=Holstein Bulls of 20,000 Lbs. Breeding=

We are offering the great bred bull, Pontiac Korndyke Plus, 2 year old, Sire, Inka Sylvia Beete Posch, the only bull in Canada with two dughters over 33 lbs. butter each. Dam Plus Pontiac Arris, champion 3 yr. old for R. O.P. work, with 20,500 lbs. of milk and 595 lbs. butter in a year, average test 3.75 per cent. fat. Also Plus Inka Artis, Grand Champion bull at Guelph toss of per cent. Las Asso Flus inas Aris, Grand Champion bull at Guellen by the same sire. Dam, Pansy De Kol Aris, 24.71 bs. butter in 7 days; she is dam of Plus Pontiac Artis. Another has four 20,000 lb. cows in his pedigree. Also a few good young Females. Write, or come and see them

S. LEMON & SONS

LYNDEN

ONTARIO

KORNGOLD IMPROVED ENGLISH YORKSHIRES

F. J. McCALPIN, Korngold Stock Farm, GANANOQUE, ONT.



AUCTION SALE

30 Head 30 Holstein Cattle

14 COWS and HEIFERS due in March or April



Alfalfadale Stock Farm

FEB. 15, 1916

7 BULLS Fit for Service

OUR OFFERING — Half Interest in the Herd Bull Finderne Valdessa Ormsby Fayne, whose dam, dam's full sister, and grand dam's records average over 33 2-77.-01d grand daughter of the fixing of the Power of the fixed of Rozal School, dams; 12.43 lb. 2-77.-01d daughter of 25% lb. cow, ye. of the fixing of the Power of the fixing of the Power of the fixing of the Power of the fixed of Rozal School School bull. The Milk and Butter Ring. 15.18 of Rozal Poech, winner at Guelph, 1914. Fourteen cowe and helfere due in March or April. Seven bulls fit for service.

WILBER C. PROUSE, Alfalfadale Stock Farm, TILLSONBURG, Ont.

300; of on choice 87.50. t \$150

dairy ne of-Con-h an-illson-For-eading glance fering

A Great Canadian Holstein Herd

The Results of Systematic Selection and Careful Breeding, as seen by

dication of what has been come on whet look of Areat Combination.

It requires only a passing glinche into the Het Loo stables to keeper breeder and feeder. It is mutually fortunate for both Pit. Harwood and that veteran Robatein associated together at Het Loo in developing a truly great hered of Holsteins. He is a born cattleman and a past master at in dairy cattle. The cattle love him. Even his little lad of four or five years is growing up in his father's of the coxes, and was quick to tell the writer the dame of each of the calves in the pens. Dr. Harwood in it works and the pens of the coxes of each of the coxes of each of the coxes and was quick to tell the writer the dame of each of the coxes and was quick to tell the writer the dame of each of the coxes and was quick to tell the writer the dame of each of the collection of the pens. Dr. Harwood in it would be considered to a motory when it comes to type and breeding. Busy and himself is an expert on Holsteins and has at his finger tips the breeding. Finger and details of practically every set delight of the pense portions in the Domition.

"WHE dairy buildings at Het Loo are not be the pense port willings at Het Loo are not be to see that Het Loo are not be the pense portion of the pense pense position in the Domition." Character in Faces.

peet that Het Loo herd will hots one of the premier positions in the Dominion.

THE darry buildings at Het Loo are not elicitate the hotself of the hotself

she is in the seven day record work. In its shape. At 2 yrs. she made 16.75, at 5 breeding she truces to old Carmen Sylvia, prs. 30.12. Her dam is a 35 h. cow, and conclude the conclusion of t

Farm of Dr. L. De L. Harwood, as managed by that

Veteran Holstein Expert, Gordon H. Manhard.

H there is a rars treat in store for your as a breeder of Holsteins or as a low as a breeder of Holsteins or as a low as a breeder of Holsteins or as a low for tunate enough to spend a day at the big lifet Loo stock farm at Vaudrouii. There were the county to spend a day at the big lifet Loo stock farm at Vaudrouii. There were the county to spend a day at the big lifet Loo stock farm at Vaudrouii. The big lifet Loo stock farm at Vaudrouii. The big lifet Loo stock farm at Vaudrouii. The went back to the land where the Holstein ment and lifet stock to the land where the Holstein has reigned supreme for a thousand year. The county of the weil back to the land where the Holstein has reigned supreme for a thousand year or word. The went back to the land where the Holstein has reigned supreme for a thousand year or the producing the county of the weil-known granting with pure-bed Holstein. Hence Dr. Harwood has appropriated the name the Ottawa, 2 miles from Montreal, and he may be a lover of the make indeed made it worthy of its weil-known granting and the big that are and select, producines of the Doctor's long distance producers, with 30,22 county to great the producing the produc

A Remarkable Cow, Big in Size and of Superior Type. Alberta Maid is the kind most breeders are aiming to produce. Study her closely. She is built for both beauty and utility. Her home is at "Het Loo."

She is built for both beauty and ut of the state of the s

The interesting to watch her as senderelops.

The third cow, Pietje Korndyke Queen, at once reminds you of Ormsby Jane Segis Asagrie, the new world champion, which she resembles in color, make-up and general appearance. She is a beautiful animal, hard to improve the color of the tail, she is the ideal, with a deep body, long quarter and a large, perfect udder. At 3 years she made 5.5 lbs., increasing it to 5.3 lbs. at 4 yrs. Her dam is a 3-bib. gr.-daughter of Helle Korndyke (S.77) also of Aagrie Grace 2nd 2 Pietertje. From our illustration our readers will get a Agrie Grace 2nd's Pietertie. From our illustration our readers will get a fair impression of the excellent type and size not only of this wonderful cow but of "Het Loo" Relations in general. These two outstanding fise general majority of them are with excellent records and the most popular breeding. Her size was only of piete 2nd wooders tad. 18 dbs. at 4 yrs.

DeVries Sylvia, who stood fifth in the row, is a great individual. She has the adder built for work. Just at present

make a record several thousands of pounds greater. She is one of the best daughters of Sir Angle Bests Segis, 10 A.R.O. daughters, a son of King Seeis, the great transabove 30 lbs. The dam of Het Loo Cloth-lide was the first cow in Canada to cross the second second to the second second to the second second to the second second to the second se

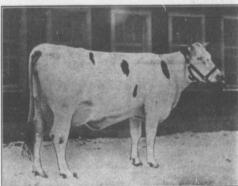
for breeding purposes in the herd of a neighbor.
Mildred Pietertje Abbekerk, a 5-yr-old, is a big factory for her age. She is built for work and on her first day she gave 60 lbs., and gained every day until she reached the 100 mark. She has a clean cut and square udder that will always keep

cons.

One of the leastly situres of the Hermone of the least of the consequent of t

fat. Sie is of Butter-boy.

Avondale Pontlac Echo,
Arondale Pontlac Echo,
The Jr. herd sire at Het Loo is well
known to Holstein breeders both through(Continued on page 29.)



Females Such as This are a Credit to Any Herd. In type, style and markings of veins, Pie tje Korndyke Queen, here shown, could be taken for a half-sister to the world record cow, Ormsby Jane Sogis Aaggie, a wonder ful 4yr-old in Dr. Harwood's herd.

"Het Lo The Home of the Holsteins of O

A few of the at F

Wills 7 days

Butter ROON HOMEST

Milk 7 days Milk 1 day .. Butter 7 days

ROXY CON Milk in 7 days

ALBERTA Milk 7 days . Milk 30 days Butter 7 days Dutter M days



JI

How would from on Record

FRANCY BELL Milk 30 days Butter 30 days Milk 7 days Butter 7 days The Canadian c

MILDRED PIET

PIETJE KORND Butter in 7 days A heifer of it now in her 4th record. FRAN

Butter 7 days . In breeding she on the JEWEL 1 Butter 7 days

We extend to All B

ion to visit Het Lor Dr. L. de I

Pro

916

contained of these coy Queen 4th. Anov Sylvia. the dam's 2 2yr.-olds and which e. Loo Hol-Loo, the distein exthe finest trs. and 7 s massive all kinds masculine masculine masculine.

oo is wel

"Het Loo" Holland

The Home of the Big Breeding Herd of Holsteins of Queen Wilhelmina of Holland.

A few of the A. R. O. Cows at Het Loo.

FRANCY 4TH (9376)

Milk	7	days		572.4	1be
Butte	r	days		28.92	lbs

	BOON	HOMES	TEAD	BURK	E (2)	6257)
	Milk 7	days .			601.2	lbe.
	Milk 1	day			94.1	lbs.
ı	Butter	7 days			28.51	lbs.

ROXY CONCORDIA (11980) Milk in 7 days 664.5 lbs.

	Butter 29.34	b
	ALBERTA MAID (6428)	
	Milk 7 days 698.4 1	b
ı	Milk 30 days 2907 l	b
1	Butter 7 days 30.32 l	b

Dutter 30 days

...... 125.7 lbs



The Home of Record-Making Holsteins



AVONDALE PONTIAC ECHO-The Junior Herd Sire

"Het Loo" Canada

The Home of Our Big Holstein Herd at Vaudreuil, Que.

Our Herd Sires with these females will Produce new Record Blood.

OAKVALE INKA JOHANNA 18026)
THE PART OF TARA SOLIABIA 18026
Milk 7 days 536.3 lbs Milk 30 days 2231.2 lbs Butter 7 days 27.54 lbs Butter 30 days 112.6 lbs
SIR JOHANNA BURNSIDE (25921)
Milk 1 day 110.5 lbs Butter 7 days 27.51 lbs

RECORDS AT 4 YEARS-

PIETJE KORNDYKE QUEEN (20527) Butter at 7 days 26.31 lbs. Note her type on opposite page. Her type and breeding makes her one of the best.

FAIRVIEW KORNDYKE BOON

Mills 20			110020)		
MILE OF	2 (1)	728 ·		2314.5	Ibs
Butter	330	days	*************	109.37	lhe
Butter	7	days		26.30	Ibs



JEWEL PRIZE 4TH-25.01 lbs. at 3 years. remarkable cow, big in size and of superior type, and testing over 4 per cent. She is the dam of the Senior Herd Sire.

In the Two Herd Sires at

Het Loo

are combined the Blood and Type of our Greatest Sires of Holstein History



PONTIAC KORNDYKE HET LOO

The Sr. Herd Sire-acknowledged by Holstein breeders as one of the finest types of sires in America. In breeding it, is enough to say that he is a son of that famous sire, old Pontiac Korndyke.

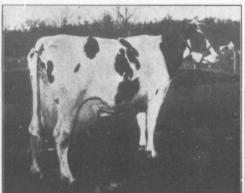
How would you like a Sire from one of these. (Records at 3 years)

FR	AN	CY	BE	L	I.	E	,	W	A	Y	N	E	0	1698	(0)
Milk	30	da	yв									2	31	8.8	lb
Butte	7	day	lay	8								3	17 55	.86	lb
Butte	r	7 d	178										29	20	lb
The	Ca.	nad	ian	7	h	a	na	y y	ie	011	00	cc	d.	f	or

MILDRED PIETERTJE ABBEKERK PIETJE KORNDYKE QUEEN (20527)

FRANCY SYLVIA JEWEL PRIZE 4TH.

We extend to All Breeders a kind Invita



Ve extent to All Breaters a kind Incites.

On to visit Het Loo and inspect our herd. MAY ECHO SYLVIA Butter 26.33. Best day's milk 131 lbs. Best 7 days, 275 lbs.

The dam of our Jr. Herd Sire—Avondale Pontiac Echo.

Vaudreuil, Que.

A few Heifers you will hear from when they develope. (Records at 2 years)

FRANCY QUEEN ORMSBY (22299) Milk 7 days 463.3 lbs.

HET LOO BOON (26783)

Butter at 7 days 18.38 lbs. A daughter of Rag Apple Korndyke

MILDRED PIETERJE ABBEKERK (21509)

Butter 7 days 18.73 lbs.

HET LOO CLOTHILDE (25921)

Milk 30 days 1868.31 lbs. Butter 30 days 90.88 lbs. Butter 7 days 23.21 lbs Milk 1 year over 18,000 lbs.

Gordon H. Manhard

Dr. L. de L. Harwood Proprietor



Only \$100

and After Trial

YES, the great New Edison, with the new Diamond Stylus reproducer and your choice of all the brand new Diamond Amberol Records, will be sent you on free trial without a penny down. The finest, the best that money can buy at very, very much less than the prices at which imitations of the genuine Edison are offered -a rock-bottom offer direct from us.

Mr.Edison's Own The Genuine New Edison Phonograph

Among all his wonderful inventions his phonograph is Mr. Edison's pet and hobby. He worked for years striving to produce the most perfect phonograph. At last he has produced the new model, and now it will be sent to you on a startling offer. READ:

Rock-Bottom Direct Offer!

If you wish to keep Mr. Edison's superb new instrument send us only \$1.00 after the free trial. Pay the balance on the easiest kind of monthly payments. Think of it—a \$1.00 payment, and a few dollars a month to get this brand new style outfit—the Diamond Stylus reproducer, the musical quality—the same Diamond Amberol Records—all the musical results of the highest priced outfits—yes, the greatest value for \$1.00 down, balance on easiest monthly terms. Convince yourself—a free trial first. No money down, no C.O.D., not one cent to pay unless you choose to keep the instrument.

COUPON

Dept.7962 355 Portage Ave., Winnipeg, Manitoba United States Office: Edison Block, Chicago, illinois

Gentlemen:—Please send me your New Edison Catalog and full particulars of your free trial offer on the new model Edison Phonograph.

Name

Our New Edison Catalog Sent Free

Your name and address on a postal or in a letter (or just the coupon) is enough. No obligations in asking for the catalog. Get this offer—while this offer lasts. Fill out the coupon today.

F.K.Babson, Edison Phonograph Distributors Edison Block, Chicago, III. Dept. 7662 355 Portage Ave., Winnipeg, Man.

A Happy Home

Happiness is life—and real happiness is found unly in a real home. And by a real home I do not mean a house with a yard or facts a real to the mean a real point of the control of the things of the control of the blasmatic and any of the control of the blasmatic and any of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the control of the second of the control of the second of the control of the contr



Such a criticy of contention and Heav the bate until the date of the law sizes. Land the law sizes are law sizes and the law sizes are law sizes and content of the law sizes are law sizes and content of the law sizes are law sizes and the law sizes are law sizes and sizes are law sizes are law