

ISSUED EACH WEEK Rural Publishing Co., Ltd., Publishers ONE DOLLAR A YEAR

FARM AND DAIRY

way

barn

Less room is required for the

storage in a silo

of the product of an acre of land

than in cured condition in a

barn. A much larger amount of diges-tible food can be secured from an acre of silage corn than from an acre of hay. A silo furnish-es a feed of uni-form surfixed

form quality.

The influence of well preserved

silage on the di-

gestion and gen-eral health of an animal is very

The silo en-

ables us to pre-serve a larger

serve a larger quantity of the food materials and of the orig-inal fodder for

feeding animals

than is possible by any other sys-tem of preserva-

beneficial.



Why Every Farmer Should Have a Silo

The Many-sided Argument of a Nova Scotia Farmer Fred. A. Bead, Bear River, Annapolis Co., Nova Scotia

THE value of a crop preserved by a greatly reduced and consequently silo is increased about forty per more land can be brought under cal-cent. ever that of a crop harvest- tivation. By providing a

Over 90 Reasons Why

Every farmer believes he should have a sile, whether he has or not. Few of us, howev-er, would have believed it possible to adduce so many reas sible to adduce so many reasons for a silo as are given by Mr. Fred A. Reid in the article ad-joining. These arguments won for Mr. Reid a 10 by 20 Ideal Green Feed Silo, or its equivalent in value, in an essay writlent in value, in an essay writ-ing competition executify con-ducted by the Da Laval Dairy Supply Company of Peterbora. The judges in the competition was J. E. Smith, B.S.A. d Farm and Dairy, and H. S.A. Waber, Fann Peterbora. Higgs Dairy, and "Stone Higgs Dairy, and the store Company. Limited instrast for

Company, Limited Jesires to thank all of those who have so thank all of those who have so kindly contributed to the inter-est of the contest, and to con-gratulate Mr. Fred A. Read, of Bear River, Nova Scotla, on his very excellent paper. The Com-pany feels that the interest stim-ulated theoret hil ulated through this contest has been wide spread and will mean considerable benefit to all of those who participated.

tion now known Succulent food is nature's food.

Since smaller barns may be built when silage is fed, there is less dan-ger of fire, thus decreasing the cost of insurance.

Inclemency of weather does not hin-

der its harvesting. Silage enables us to keep more stock thereby increasing the fertility of the farm which will in time give us larger crops and affords a chance

us larger crops and anores a chance for another increase in stock. Ensilage is considered the most economical part of the ration of dairy cows and young stock. It will save about one-third or more of all feeds fed in winter.

A silo prevents the losses that occur curing. Where hay-making is precluded, as in

Where hay-making is precluded, as is sometimes the case with second crops, as clover, rowen, etc., on ac-count of rainy weather late in the season, the silo will preserve the crop, so that the farmer may defive full benefit in feeding it to his stock. No danger of late summer droughts, as by using the silo with clover or other green summer cross, early in

other green summer crops, early in the season, a valuable succulent feed will be at hand, when pasture in

will be at hand, when pasture in most regions is apt to give out. Crops unfit for hay-making may be preserved in the silo and changed into a palatable food, such as thistles,

The harvest can be removed earlier. making it possible to finish fall plow-ing sconer and to seed the land down to grass or winter grain.

to grass or winter grain. At a conservative estimate two cows can be kept by feeding silage at the cost of one cow from the same acre-age, fed on hav or other roughage.

ace, fed on hav or other roughage. Convenience in feeding and econo-mv of storage room, as 10 tons of sil-ace can be stored in the same snace as one ton of hav. ... When fed with the proper rations, silace is a greater milk reducer and farener that arrock as a rule, are in Thathher state than when other field are used.

feeds are used. When properly taken care of there is absolutely no waste of any part of

cheapest method of handling the crop, of storing it, and the best method of sav-ing and realizing the fullest value

More stock can be kept on a cer-tain area of land when silage is fed than is otherwise the case Silage feeding does away with aggravatin all corn stalk in the manure and pre vents their wash

which matures at a rainy time of the year when drying would be almost impossible.

It increases the digestive capacity of the animal.

ture acreage, required and will ha a marked effect on beef products on high priced lands.

on high priced lands. Night pasturing has been founds be a very valuable practice in come tion with summer silo. A silo permits of saving cross i years of great plenty for other us sons of less plentitude. Experiments have proved that sile for steers have removed un mode

Experiments have proved that sile fed steers have repeatedly made a heaviest and cheapest gains. Silage saves a large proporties grain needed in fattening animali-saves the need of any grain while o the are growing. Silage-fed us cale faster, finish more quickly, a the silage system helps mains will fertility.

The silage system neuro main soil fertility. The palatability of silage for or and sheep is universally recomm by all farmers who have given in food a fair trial. Cattle show great eagerness for

Its succulent character makes very comparable with grass or di green stuff. The choicest of milk is produced

herds fed silage. (Concluded on page 11)



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

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

ne "Simplex

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

Willing Workers

day.

A "Simplex" does away with all the hard work of 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., Ltd. Head Office and Works : BROCKVILLE, ONT. Brancises: PETERBOROUGE, ONT. MONTREAL and QUEBEC, P. Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS





They will appreciate it and for you good business will result.

Send Your Reservations Early

RURAL PUBLISHING CO. ONTARIO PETERBORO

By providing a succulent forage,

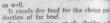
winter dairying is made profita. ble and no reducseason.

tion of stock is caused by a dry It is the cheap. est food that can be produced as

well as the best. It is a certain supply, notwith-standing the drought, flood or

the snows The silo is the

feed



It keeps young stock thrifty and growing all winter and enables the cow to produce milk and butter more economically.

Its use lessens the labor required a care for a herd, if it is convenient attached to a barn. It allows the spring pastures to ge

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The silo supplements pastures as carries the burden of the winter fee

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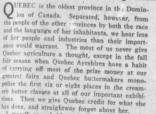
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age 11)



FOR WEEK ENDING JUNE 24, 1915

No. 25 Farming in the Bedford District of Quebec French and English Speaking Farmers Live Side by Side and the Dairy Cow is the Mainstay of Both-By F. E. Ellis



I myself once held to the too prevalent idea that Quebec is hopelessly backward in her agriculture and that no good thing could come out of Quebec. It took a couple of visits to the Chateauguay district to convince me that Quebec had at least one section in which her farms and farmers rank with the best that Canada can show. A few weeks ago I visited another farm district, and what I saw in the two counties of Missisquoi and Brome, which compose part of what is known as the Bedford district, compelled me to again revise my preconceived notion of Quebec and its agriculture. In Bedford, as in every other district of every other province, I found poor farms and indifferent farmers. But I also found a goodly proportion of progressive, intelligent men whose farms spoke eloquently of good management and whose buildings bespoke the prosperity that goes with well-conducted dairying. I am still of the opinion that too much of the province depends on hay as the main money crop, and that all such sections are necessarily backward in farming methods. But there are certain sections scattered here and there, which prove



The Home of One of the More Progressive French-Canadian Farmers of the Bedford District.

As a general rule French Canadians are not so progressive as their English speaking neighbors. There are exceptions. The attractive home, here illustrated, is that of Chas. Paradis, who farms 300 acres of land, milks 30 cows, mostly Jerseys, and ships cream to Montreal.

the possibilities of old Quebec, where intelligent management is given.

The dairy cow reigns as queen in the Bedford district. A few decades ago general farming was followed, which means that the farmers produced a little of everything and not much of anything. Shorthorn cattle were common. Then creameries and cheese factories were established. Cattle of dairy breeding proved their worth, and to-day practically all of the cows of the district are either pure-breds or grades of one or other of the specialized milk breeds. For the last 15 or 20 years diversified farming has been the rule, with dairying the main line on at least 90 per cent. of the farms. On the farms which I visited the lighter breeds of cattle-Ayrshires, Jerseys, and in some sections Guernseys-were favored,



A Type of Barn That Is Common and Popular in All Sections of Quebec.

hir barn on the farm of Watson Bros. in the Bedford f (arist of Quebec, is three stories high. The lowest is used as a stable; the highest, right up in the roof is the drive floor, from which all hay and grain can be added downwards into the deep have an either side. This are stored in the modern unleading fork, is not so destrable aw.

the preference being due to the nature of the country.

The soil in the Bedford district is productive. saw there as good fields of grain and clover as I have seen anywhere in Ontario this spring. The thing that impressed me most, however, was the immense amount of human labor required to bring the farms up to their present standard of excellence. On every farm visited in the district save one, men and teams were busy pulling out boulders and carting them away. Not an acre of land had been brought under cultivation without much hard labor. As is usual in districts such as this, the farms are large, but with only a small proportion of their total area under the plow. Among the farms that I visited around Cowansville, for instance, that of Geo. Beach had 320 acres total area and only 75 acres cultivated. On this small cultivated area, however, all of the rough feed and part of the grain feed was produced for 65 head of cattle and nine horses. Of the 150 acres of Charles Ruiter & Sons, only about 60 is under the plow. On the neighboring farm of Geo. Ford, 312 acres are owned and 150 cultivated. This is an unusually high percentage of land under cultivation. Watson Eros., at Dunham, informed me that of their 300 acres, only 75 to 80 was under cultivation, and this, I believe, is a fair average for the district.

Good Grazers Wanted

With so much rough land, the first requirement that a popular dairy breed must have is that 'he cows be good grazers. Ayrshires are considered the ideal grazers by many, and they are popular all through the Bedford district. No live stock census has been taken, but men well acquainted with conditions throughout the three counties informed me that there were probably as many

pure-bred Ayrshires as all other dairy breeds combined. Jerseys, too, are popular, and Chas. Ruiter & Sons and Geo. Ford have herds of this breed that will average well up in production with any other Jersey herds in Canada. Sit Sydney Fisher at Knowlton has a herd of Guernseys; and Guernseys and their grades are now fairly common in that locality. Holsteins have been more recently introduced, but are now gaining in popularity. Messrs. Cooey & Soles, in West Brome, have excellent Holstein herds, the former being one of the few men of the district who is using a milking machine. Probably, too, there are many other Holstein herds of which 1 did not hear. The biggest objection to the blackand whites on the majority of farms will be their inability to make good use of extensive, rough pasture lands.

Crop rotations are as well understood among the English-speaking farmers of Bedford as anywhere else in Canada. The main dependence for cow feed is placed on .corn ensilage and clover hay, and silos are found on a far greater proportion of the farms than is common in Quebec localities. Alfalfa, I was told again and again, cannot be grown successfully on account of the hard winter. The Ruiter boys, however, seem to have disproved the common belief. When on their farm, Mr. Andrew Ruiter took me out to a field of alfalfa, standing two feet high and almost ready for the first cutting. This crop had survived several winters, with practically no winterkilling, and two good crops and sometimes three have been cut. Eventually the Ruiters hope to run their whole farm on a five-year rotation of corn, grain and three years alfalfa.

Alfalfa Success Secrets

The success that Ruiters have had with this crop when others have failed is probably due to the care that they have taken in inoculating their seed and in liming the land. The Bedford district is off the limestone belt, and one of the first requirements of good alfalfa is a soil rich in lime. A dressing of 1,000 pounds of lime to the acre has given the Ruiters splendid conditions for alfalfa and the soil on this farm is representative of the soil on other farms in the district. The Macdonald College demonstrator,

Alfalfa Seed Production in Canada[®]

Prof. James Murray, Macdonald College, Que. "HE amount of alfalfa seed grown in Canada is very small compared with the amount used for seeding purposes each year. Most of out seed comes from warmer countries, from the central and south-western states and from South



The Hardiness of Alfalfa Again Proven.

This alfalfa, standing two feet high, is on the Ruiter Farm in the Bedford District of Quebee. Mr. Andrew Redee may be seen in the illustration.

America. Many of the varieties imported are too tender for Canadian climatic conditions, hence the frequent failure of alfalfa to make a stand in Canada. Acclimatized seed is scarce and expensive, but I would prefer to get it and sow a little



Three varieties of alfalfa are now being advocated as hardy : Ontario Variegated, Grimm's, and the Baltic. The Ontario Variegated has been grown

for 25 or 30 years in the Niagara pen-The insula. supply of seed is limited, and

yet seed must be grown under practically the same con-

This is one of the larger creameries of the Bedford District of Quebee, it is situated just once in the provide the second state of the Bedford District of Quebee, it is situated just once in the provide the second state of Quebee, is ever willing to denounce the hand segmentor as the prolife source of bad cream and second grade butter. — All photos by an editor of Farm and Dairy. ditions under

Mr. Lods, is making a special effort to introduce alfalfa throughout the district, and if proper attention be given to liming and inoculation, I believe that this queen of legumes will soon be a more popular and common crop there than it now is.

Creameries Are Common All Through the Bedford District.

The marketing of the output of the dairy herds of the district is largely in the hands of the factory proprietors. Creameries preponderate, and (Concluded on page 6)

which the crop is expected to flourish. I believe that Canadian farmers could grow their own alfalfa seed and grow it well. The greatest difficulty to this plan is that alfalfa is very uncertain as a seed producer. For seeding purposes the plants must not be too close together. Each plant should have room to spread out and blossom

*Synopsis of a part of the address given by Prof. James Murray at the last Ottawa Winter Fair.

June 24, 1915

To grow for seed it is necessary then to follow different methods than in growing for hay or fodder. The best plan is probably to sow in rows two and one-half feet apart, then the seed can be sown thinly, the soil cultivated easily, and there will be room for the crop to spread out. I would say do not sow more than two pounds to the acre, and sow in June or July. Sown at this period, we have two months in which to get the soil into proper condition. If the crop has sufficient top and blossom in August, it should be cut and the cuttings left on the ground.

The spring following seeding the field should be worked up thoroughly by drawing an ordinary cultivator across the rows. This stirs up the soil and tears out the weeds. The second cutting is the one reserved for seed. I would advise harvesting when two-thirds to three-fourt'as of the pods have turned brown. The balance will ripen when the top has been cut. Cutting with an ordinary binder is as good a way as any, the alfalfa being bound and stooked in the same way as grain. Lacking the binder, a mower with clover seed attachment may be used, the cut crop being moved out of the way of the horses' feet. Threshing is best done with a clover huller.

One hundred pounds of seed per acre is an average crop, but under very favorable conditions it runs as high as from 300 to 400 pounds. The greatest returns of seed are secured from seeding thinly in rows as I have suggested.

The Control of Locusts

URING the past three years Farm and Dairy has received many inquiries asking for methods to prevent the ravages of locusts or grasshoppers. During the years 1912-14 these pests have been extremely numerous and destructive in the provinces of Ontario and Quebec. One farmer in Lanark Co., Ont., reports that crops in his district alone have been destroyed to the extent of 75 per cent. In many instances, fields of oats and barley were cut green to save for feed. The Department of Agriculture at Ottawa reports that in some parts of the province of Quebec, farms have been abandoned within the years mentioned, owing to the large number of locusts present.

Several thorough and extensive experiments have been conducted by the Federal Department of Agriculture to determine the efficacy of poisoned bran mash in holding locusts in check. At Bowesville, Ont.; for instance, the mixture was broadcasted early in the morning, and counts of the locusts killed made four days later. These counts gave from 50 to 414 dead locusts to the square vard. Several farmers of the same district, who tried the mixture, reported later that they were well pleased with the results of their experiments. Rev. J. I. Trudel reported from St. Etienne de Gres, Que., that eight days after the poist n mixture was broz leasted, counts in various fields showed 900 to 1,200 dead locusts to the square yard.

In the Bowesville experiments the mixture was scattered so that 20 pounds of the bran was suffcient to treat four acres and the cost for labor and material came to 25 cents an acre. In the Quebec experiment, the cost was 18 cents at acre, exclusive of labor. The formula used in preparing the poison mixture was as follows:

Bran, 20 pounds ; Paris Green or white arsenic. 1 pound ; molasses, 2 quarts ; oranges or lemons, 3 fruits; water, 3% gallons." In preparing the mash the bran and Paris Green or white arsent are mixed thoroughly while dry. The juices of the oranges or lemons are squeezed into the water, and to this is also added the pulp and pet after cutting into fine bits. The molasses should then be added, and when dissolved the mixture poured on to the dry bran and poison, stirring the whole constantly so as to dampen the bran thoroughly. This mixture is then broadcasted very thinly over the fields.

June 24, 1915

Breedi

"HERE is a farmers tha easy to raise, an almost sure to l mother of good l mers are equally heifer calf is larg against you. Ev instances from th perience of neigh lent milkers were pail. I will gran their contention. want to know al where everything plain sight. Milk ter of temperamen is not so easily c the charm of dai more skill and go of the beef breede

I am speaking pure-bred dairy c or a herd of mo breeding of heifer is a more certain of a good beef a made by those who a lottery is that milking qualities scientific investiga observations go to making tendency largely from the s records offer abun Study the pedigre animals. In all ca through a line of the sire's side, w side, in many case mediocre

Milk Transmitte

Stating the same ther way we may milking cow trans through her male female offspring. that has come und A big roan Sho friend's herd was a Her heifer calves milkers. A couple had been sold to tically every heifer bulls turned out to ers, possessing the tive powers of their

It is just at this testing work cond maximum results in who are trying to ing heifer calves much regard to th sire. Such breeding



A Choice Line of]

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June 24, 1915

Breeding Milking Heifers By "Ferdsman"

"HERE is a very prevalent opinion among farmers that beef cattle are comparatively easy to raise, and that the beef-bred heifer is almost sure to be a good beef animal and a mother of good beef animals. These same farmers are equally certain that the raising of a heifer calf is largely a lottery, with the chances against you. Every one of these men will cite instances from their own experience or the experience of neighbors where daughters of excellent milkers were themselves of no account at the pail. I will grant that there is some truth in their contention. A beef animal carries all we want to know about her right on the outside, where everything we desire of her is right in plain sight. Milk production, however, is a matter of temperament and breeding tendencies and is not so easily controlled. To me, this is half the charm of dairy cattle breeding; it calls for more skill and good judgment than is demanded of the beef breeder.

I am speaking only of breeding high-class pure-bred dairy cattle. In a grade dairy herd or a herd of moderately good pure-breds, the breeding of heifers that will do well at the pail is a more certain operation than the breeding of a good beef animal. The cardinal mistake made by those who consider dairy cattle breeding a lottery is that they place their reliance for

milking qualities on the dam. All scientific investigations and practical observations go to prove that the milk making tendency is inherited most largely from the sire. All our breed records offer abundant proof of this. Study the pedigrees of high record animals. In all cases they trace back through a line of high producers on the sire's side, while on the dam's side, in many cases, the breeding is mediocre.

Milk Transmitted Through Sons Stating the same breeding law another way we may say that a heavy milking cow transmits her qualities through her male rather than her female offspring. Here is an instance that has come under my observation. A big roan Shorthorn cow in a friend's herd was an excellent milker. Her heifer calves were failures as milkers. A couple of her male calves had been sold to neighbors. Prac-

It is just at this point that I expect the cow testing work conducted from Ottawa to fail of maximum results in many cases. I know of men who are trying to improve their herds by keeping heifer calves from the best cows without much regard to the milking proclivities of the sire. Such breeding may result in a deterioration

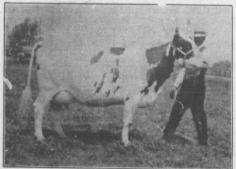
rather than an increase in the everage of herd production. I am not finding fault with the cow testing movement; it is good, and I have personally heard Mr. Whitley urge that milk weighing and testing should be only supplementary to good breeding.

I do not wish to be misunderstood; the sire is of most importance, but the dam also hasher influence. Best and quickest results are obtained by breeding the best cows in the herd to the best dairy sire obtainable. Cow testing and the pure-bred sire

certainty.

The Length of the Test By J. R. Donaldson

"HE commercial dairyman must have his cows freshen at or near each 12-month in-



A Pile Tribute to use same show to be be the straight with more size that that is shorts characteristic of her bread, balls turned out to be excellent milk-es, possessing the excellent product in the milk eow class and female charapton at Ormstown. Owned by Hector Gordon. Riverfield, Que. A Fine Tribute to the Skill and Good Judgment of Her Breeder.

terval. The breeder of pure-bred cattle, run- Eagleson ning his cows in Record of Performance test. aims to have them freshen as near to 15 months as possible in order that the cow may have every chance to make a creditable 12 months' production. The ostensible object of semi-official tests is to increase the commercial value of dairy



A Choice Line of Jerseys. The Graded Herd Exhibited at the Ormstown Spring Fair, by B. H. Bull & Son, Brampton, Ont.



One of the Choicest Cows Ever Shown at the Ormstown Spring Fair. going hand in hand, Bhoda's Princes, female grand champion of the Holstein breed at the resent dairy breeding is not a Ormstown Spring Pair, was pronounced by many to be the best mile) owe exhibited lottery. It is a reasonable distribution of the Holstein breed at the resent distry balanced udder. She is owned by Neil Ranguler. Ormstown, Que certainty.

cattle. The commercial dairyman, who makes

his records in 12 months between calvings, is asked to compute the superior value of purebred cattle on records made in 12 months of

actual milk production and 15 months between freshening. This has not seemed reasonable to some. Others are equally ready to defend the present system. Ereeders themselves vary in their opinion, and recently when in the Belleville district of Ontario, I asked several of our leading breeders for their opinions. Here are a few of the replies received :

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"The length of the test should be reduced to 10 months. The cow needs a rest, and if she does not get it she cannot be bred so frequently."-R. Honey.

"I am not in favor of changing the length of test. Canadians are even now at a disadvantage as compared with United States breeders in making records."---Wm. Stewart.

"I am not in favor of changing the length of test. Some large records have already been made under the old regulations, and 10-months records would look small compared with them."-Alex. Hume.

"A change to a 10-month lactation period should meet with favor."-

"I believe that the length of the test should be reduced. Canadian breeders are not on the same basis with United States breeders anyway; and a 10-months' test would be a more normal one."-P. E. Nelson.

"I believe it might be advisable to reduce the test period to 10 months."-Richardson.

"It will be a long time before the 10-months' standard is adopted. There have been too many records made at 12 months."-H. K. Denyes.

"I believe the 10-months' test to be preferable because it better resembles normal conditions than one of 12 months' duration."-A. D. Foster.

"I am wholly in favor of a 10-months' test: 12 months is too long to keep a cow working at full capacity, especially when she is carrying a calf." -D. B. Tracey.

Here are the opinions of several breeders of both Ayrshire and Holstein cattle. Evidently it will be some time yet before breeders will agree on either one practice or the other as being most desirable.

Dragging the corn crosswise of the rows is good practice both before it appears and a few days afterwards. Then start the cultivator.

-Photo by an editor of Farm and Dairy.

FARM AND DAIRY



OU say, "Oh 1 it all very well for those Dillon fellows to talk that way, buy they don't have to get out and pitch on and off all day !"

Now that's just where our point comes in. The pitching on is in most cases a necessity, but the "pitching off" comes un-

der the lost time heading. A few hours lost, a few loads left out, a few rain storms and there's more than the price of our whole outfit, carrier, fork, track, pulleys, rope, etc. Did you ever look at the matter in that light before i

illustration The shows our "Oshawa Fork" Canadian Fork" Standard High Carbon Steel, carefully made and every one tested, and our Meadow King Carrier, for fork or slings, for Imperial Steel Track. This carrier represents the limit of all that is up-to-date in Hay Carriers. The lock is perfect. Contains no springs

OUR

31 inch Tines

14 inches apart

(6)

570



R. Dillon & Sons

OSHAWA

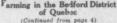
ONTARIO

In buying Dillon goods, you have everything to gain and nothing to lose. Note the guarantee under which all of our products are sold. We employ no agents. "From factory to user and a square deal to all" is our policy. Write us to-night of your needs. **GUARANTEE**

14

We agree to allow anyone thirty days to st out any of our goods. and if at the end of that and if at the end of that time they do not prove per-fectly satisfactory to you they can be returned to us and we will pay the freight charges both ways, and also refund any money you have paid on the purchase





in the majority of cases the most of the milk is skimmed at the factory. The hand separator for use on the farm is not popular with the creamery tarm is not popular with the creamery men, although its popularity is in-creasing with the farmers. "The hand separator is the curse of the dairy business in this country," em-phatically declared T. W. Duna, pro-phatically declare during the course of a short visit "It has lost us our export market altogether. It is not so much the use altogether. It is not so muich the use of the separator as the abuse of it that explains the situation. One dairy I was in, for instance, was a model for cleanliness in the stable. There was sawdust on the floors and the whole place looked good enough to eat in." Mr. Dunn pauged here to rive added emphasis to his succeed-ing remark: "And they wash their separator only once a day." Anothe Senarator Ahuse

Another Separator Abuse

Another Separator Abuse One of the greatest abuses of the land separator and one that has had ine district in lowering the cuality of frequent delivery of cream. The old-fashoned skimming creamery with skimming stations throughout the district, received the milk, skimmed it and got the cream immediately into cold storage. Then it was that Bed-ord district butter found its way to cold storage. Then it was that Bed-ord district butter found its way to the British market. Now, so the creamery men told me, the hand se-parator has closed that market per-haps for ever. Another development haps for ever. Another tevelopment in the creamery situation i, the cream shipping business. At M. Tunn's creamery, for instance, fully '0 per cent. of the product is sold as cream, part of it being shipped to Montreal and part of it to the United States.

and part of it to the United States. Sheep are not as popular as might be expected in a country whose rough pasturing ground is abundant. Of all the farms that I visited, only two mentioned sheep among their live stock. Here again the Macdonald College demonstratog is which work work. It association, which this rowing gold the hichset read-of work. Collect He has already formed a wool grover. He has already formed a wool grover, which this section of the highest crade of wool of 31% cfs. the next two grades at 30 cfs., and the rejects at 20 cfs. The highest price paid to grovers outside of the association was 25 cfs., and one of the members told me that the highest price he had received in pre-vious years was 18 cfs. Altogether 6,000 pounds of wool were sold in this way. With a market assured, sheep should become more popular., English Population Declining

English Population Declining

My visits among Bedford farmers, of which I will have more to say in future issues, were necessarily limit-ed to the English-speaking families, who are the more progressive of the mixed French-English farming popu-lation. The French-Canadians, as a mixed French-Eurich Charmine room-lation. The to lack in ambition and interventions. Relations, as a the size. But there are many brit-the Ruiter farm, for instance, is the attractive home of Charles Paradis, illustrated elsewhere in this issue, who farms 200 acres, mills 30 cover, and ships his cream to Montreal. It spice of their tardiness in adopting French formerer at living and large forer as all of whom work, to pay a forer as all of whom work, to pay a living the for and and still make english spice for land and still make of their for land and still make of the size of the surely, the English speaking farmers are being foreed out. Mr. Geo. Easch informed me that home township, where there have here now only seem. Right in the vicinity of the Beach hang-ed fram five years. All with whom I infled seem certain that soomer or later they would be forced out and the



Booklet, "Repairing and Building"-Free

Building — Free Hy on do not know the Neponsel Deder in your town, write for his name. If there is no deare there, we have a special propo-ation to make you. 'Nep up the freight. BIAD & SON Established 1756. Be Heintzmas Bidd, Haviohn, N.B. Branches: Montreal, Et. John, N.B. Calayre, Vancouver.

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Our "B" machine, built especially for Our "B' machine, built especially the the farmer. A combination machine -it will cut and deliver green com-into the highestalio ord ystar avor hay into the mow. 12 -inch throat, roll has 6 inches and set class to kiner - will, compare cuting stations, rong insanth, Dire pagessatic deliver. Kalte whether cutine into the balance. Neel has a cut, wheth utwark ho balance. The that case.

de in two styles - mounted or unmou s' make larger type machine for cust Ask your dealer about this well-known machine and write us for new catalog showing all styles



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in the spring. "In harvestin plained Mr. Gle in the morning put into the ba This is our pro-ditions are right must be dry, t before it is lod .



Better She Notice how clean an In cleaning of

pheric conditions r and a breeze from make hay splendid "If hay is lodge fore it is cut, it wi more before it can safely. If the hay moist along with dew, they are sure hay become musty if the hay is put in turn to silage point above which without heating, an point it will turn to like to see our exp

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should be started in fore the dew has fall noon as soon as the

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causing them to bec easily lost. The leav valuable part of the h

of the leaves also clo channel for the mois of the stems. After

channel for the mois of the stems. After been cut, it should b tedder, side-delivery nake, as soon as the h per part of the swath wilted. The object sh

at one time. Clover hay should

soon as the firs

The Clover

By Andre

The Green, Clover Harvest Determined the second s clover less and put it into mows clover ress and put it into moves in a greener, fresher condition, which is certainly more palatable and better relished by the stock. I asked Mr. Glendining about this method of clover harvest when at his farm early

clover harvest when at his farm early in the spring. "In harvesting clover green," ex-plained Mr. Glendinning, "we cut it in the momine ted twice, rake it, and put into the barn in the afternoon. This is our procedure if weather con-ditions are right—that is, the ground must be dry, the hay must be cut hefore it is lodged, and the atmos-

FARM MANAGEMENT the hay loose in the swath or windrow that the wind haw have a free circulation throw hit, and to keep it from exposure to the hot sun, as far would be the hot sup of the hot sup

FARM AND DAIRY

This exposure to the not sun, as far is possible to the not sun, as far by and stiff, the hay should be raked in and stiff, the hay should be raked, when thereas, if it looks like rain when thereas, if it looks like rain when thereas an and the should be raked, be put, into a should be a solution covers-tinue good, the clover should to con-tinue good, the clover should to con-tinue good, the clover should to con-tinue with the should be be fit for the stack or the mow the second attention. If the weather is such attention is the weather is such attention. If the weather is such be put into size cock, it should be put into size cock, it should for some time.

Radium Fertilizers Dy R. M. Isham

THE columns of many of the mag-azines have recently carried ad-vertisents of so-called "rad-ium fertilizers." setting forth in ex-travagant terms the benefits to be

Better Sheep on the Road Than Weeds on the Roadside. how clean and free from weeds are the sides of this Durham Co., Ont., road. In cleaning out weeds in this manner sheep are truly farm improvem. —Photo by an editor of Farm and Dairy.

pheric conditions right. A bright sun and a breeze from the north-west make hay splendidly.

"If hay is locked and mildewed be-fore it is cut, it will have to be dried safet, but the hay is put in the moves affet, but the hay is put in the barn main and the hay is put in the barn main and the hay is put in the hay have law they are such de spores of mil-law become musty onewelop and the law become musty onewelop and the isy become musty onewelop and the isy become musty onewelop and the isy to silve which the hay dries out without heating. and below the same point show the which the hay dries out without heating. and below the same point is will turn to silage. I would like to see our experimental stations de some investigation work to find the tust where that stage is. They "If hay is lodged and mildewed be out just where that stage is. They have better facilities for such investi-gation work than I have."-F.E.E.

The Clover Harvest By Andrew Boss

CLOVER for hay should be cut as soon as the first blossoms begin to turn brown. The mower should be started in the evening be-fore the dew has fallen or in the fore-soon as soon as the dew is off; and it is not wise to cut down too much

It is not wise to call down too induce at one time. Clover hay should be cured in the shade, and not exposed to the hot sum anless it is frequently turned. The sum quickly dries the thin leaves, austine them to become brittle and why lost. The leaves are the mouth why lost. The leaves are the mouth of the part of the hay. The drying of the part of the hay. The drying of the source also closes the natural data leaves also closes the natural of the source of the source of the ned the source of the source of the source of the ned the leaves in the up-per part of the swith are thoroughly willed. The object should be to keep

derived from the use of radium as a These fertilizers are in most c ordinary nitrogen, potash, and phos-phorus fertilizers, with the addition of, at most, infinitesimal quantities of

nhorm ferrillærs, with the addition of, at with infinitesimal quantities of radium, divied from the residues left after the exived from the residues left after the exived from the residues left after the present market price of radium is \$10,000 market price of anoarent that a fertilizer cars readily at the high price of 26 cts. per pound at the high price of 26 cts. per pound at the high price of 26 cts. per pound at the high price of 26 cts. per pound at the high price of 26 cts. per pound at the high price of 26 cts. per pound at the high price of 26 cts. per pound at the high price of 26 cts. per pound of the Professor Cyril G. Hopkins, of the Professor Cyril G. Hopkins, of the south as to the soil, in quan-tities worth as a to the soil these "rad-jum fertilizers" are of these "rad-ium fertilizers" are of these "rad-bility due rather to the nitropha-potash, and ph sphorus they contain potash, and ph sphorus they contain potash, and ph suborus they contain potash, such fertilizers is decidedly questionable.

Distrusted the Censor

FROM a sailor's latter to his wife: F''Dear Jane... Jam sending you a postal order for 10s, which I hope you may get-but you may not-as this letter has to pass the Censor.'' -Punch.

An exchange recommends the application of tincture of iodine every day for ten days to remove warts from cow's teats

SYDNEY BASIC SLAG

571

OUBTLESS you intend putting in an increased acreage of Fall Wheat this season.

To get the biggest possible yield per acre you must use Fertilizer and the Fertilizer that gives the best results at the lowest expenditure is Sydney Basic Slag. Write us at once and we will get our representative to call and give you the names of Ontario farmers who have grown record crops of Fall Wheat with the aid of Sydney Basic Slag. We make money by helping you to make more money, and it will not cost you anything to have our representative call on you. We want agents where we are not already represented, and if you are the means of introducing Basic Slag into your district you will be conferring a benefit on your neighbors and there will be a reasonable remuneration in the business for your trouble.

The Cross Fertilizer Co. Ltd. SYDNEY, NOVA SCOTIA





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DRACTICAL farmers who know what harvesting difficulties must be overcome in Eastern Canadian fields, urge the use of the McCormick binder. Ask them. You will find the McCormick has an unusual number of good, strong points that insure as complete a harvest as it is possible to get, even under worst field and grain conditions.

For Eastern Canadian fields the McCormick binder is built with a floating elevator which handles varying utility with a monting elevator which h quantities of grain with equal facility, guards are level with the bottom of the plat-form so that when the machine is filled to out close to the ground there is no ledge to catch binder to clog the machine Look for the same bindered when and other bottom and the same bindered when the i onde The hinder IHO

reatures you will appreciate. Look for the same high-grade workmanship, the same farrows I H C quality, in McCorniek twine and in McCorniek movers as well as bind-ers. Make the most of your crops. See the agent for ca'i-logues and full information, or, write the nearest branch house.



Made in

Canada





Orchard and Garden Notes _

EEP the cultivator going. A heavy mulch of manure is good for the rose beds. Another sowing of pras, beans and weet corn may be made. N

Prune early-flowering shrubs, such spiraea and lilac, as soon as they

Are through flowering. Vines should be used to cover un-sightly board fences. Morning Glory, wild cucumber, canary-bird vine, or gourd are useful for this purpose.

Watch for currant worms. They may be killed by spraying with arsenate of lead. Paris green and lime may also be dusted over plants on which worms are working, with wood effect.

Keep the asparagus bed clean by

Accept the asparagus bed clean by cultivation as long as possible. Keep the seed pods off rhubarb. Otherwise it soon becomes tough. Stake dahlas and, do not leave more than one or two canes to grow. Too many shoots mean small flowers.

Soil || Management in Young Orchards

By John P. Stewart, Pennsylvania

THE best soil management in young orchard is the one which This gives the largest growth and In servers the largest known and earliest fruiting under most condi-tions. The moisture is conserved most efficiently by a good mulch of strawy manure or other plant mater-ials, which should be accompanied by proper protection against mice. Where sufficient mulching materials are not available, proper tillage and cover-crops should give satisfactory results. The use of tilled intercrops, such as

potatoes, corn, beans, and peas, dur-ing the first seven years, has resulted in no injury to the adjacent trees even on a poor soil, and has brought in returns of \$40 to \$50 an acre in some years. On good tillable soil, and with the trees well mulched, this is the most practical method of orchard development. Best Cover Crops

Among the annual cover-crops, buckwheat, hairy vetch, and millet high. Some financial returns also be secured from the first, rank high. an by high cutting or heading, and pro bably without materially reducing its favorable influence on the adjacent trees. It thus makes possible a combined cover-and intercrop system, which apparently is a new idea in orchard development. A combined mulch-and-intercrop

system is also possible on suitable soils, by the use of alfalfa while the trees are young. This plant is not trees are young. This plant is not only capable of furnishing an abundant supply of mulching material for the young trees, but under favorable conditions it may also afford a con-siderable surplus for hay. The mulch, however, should be heavy enough to keep down the direct competition be-tween alfalfa and the principal tree roots. In our experiments, this system has given better results that any kind of annual tillage during the first seven years, and it is especially well adapted to large acreages. In the older bearing orchards, where

In the older bearing orchards, where the mulch-producing area is small, three courses are available. Mulch-ing materials may be brought in; a tillage system, preferably by discing, may be adopted; or it may be pos-sible to replace both by a proper sys-tem of fertilization. The grouped system of fastilizations.

The general system of fertilization

found best in our older orchard ex-periments involves annual applica-tions of either stable manure, at the becimicitis invoices annual matching of the product of the produc

tion to the size of the crop set. The size of the crop set. The set of the size of the crop set. The but filte handli. Such benchis as have appeared were largely in those cases where the moisture was especially well conserved or else was naturally abundant. In a few case, some actual injury has apparently re-sulted to young trees from rahe-heavy applications of commercial ma-ught forms of potash. Hence a good mulch of manure is probably the best "c-neral applications of the general fertilizer stated above should be satis-factory. factory

Sprays for Potatoes

S OME of the most careful work ever conducted in spraying pota-D ever conducted in spraying pola-toes for fungus diseases has been that carried on at the New York Ex-perimental Station at Geneva for the past few years. The results over the past few years. The results over the whole series of years tend to show that lime-sulphur is harmful, rather than beneficial, to potatoes. Bordeaux mixture prevented tip burn, made the foliare dark green, prolonged the period of growth and increased the vield. Lime-sulphur, on the con-trary, aggravated tip burn, dwarfed the plants, shortened the priod of growth, and reduced the yield.

During the latest experiments, those of 1914, plots treated with Bor-deaux mixture yielded at the rate of 499.8 bushels an acre. The unspray-ed plots at the rate of 335.8 bushels. and those sprayed with line-sulphur, 319.6 bushels. Six applications at the rate of 150 to 300 gallons per acre were made during the season, the first on July 7, and the last on September

Petate Jettings By W. Slate.

There is only one sure way to have sound potatoes-keep thes sprayed. If the field is not large enough to warrant the mixture of Bordeaux on the place, commercial prepa-ration may be used. If using para green alone, two pounds of lime should be added for each pound of

should be acture for each point parts green. This will prevent injury to the vises. Recent rains have done much for corn and potatoes, but this only es-hasizes the need for constant cul-vation. Eternal virilance is no more the price of success than is frequent the price of success than is freques cultivation the road to good corn and potato crops. If cultivation has bee deep early in the season there is a reason why potatoes should not be cultivated after the tubers have set A two-horse riding cultivator is a splendid tool for this work.



With th

C. McKenny, HE baby chick

ed one used poultry indus has demonstrated without live hatched and still vigorous stock. I of a burry to get nest or out of the sionally they are after hatching. M after hatching. M hours, and occasi pressed, they hav longer. Nature h egg in the c food

When the chicks brooder, their first fine sand. This is brooder or hoover it is scattered clow swept up in the water is kept befor and butermilk whe cannot secure by fresh skim milk to acid bacteria of th lieve, has a very the digestion of th Down to G

The next feeding cats and finely gra times a day on a only in small quan be cleaned up imm days I begin to composed of two p one part of corn m and one-half part every 100 pounds added a handful of charcoal, a handful of fine feedings are reduc and commercial ch litter to keep the c ing, the litter, of co one of alfalfa and

When the chick the colony houses, hoppers. From the is fed in one ho corn and wheat it? a third. They ar green and animal One point I would

feeding of young have learned it fr Be ve experience. nothing salty. I kill chickens as fa sels, or stray cats.

The Vanklee

PURE BRED dai multiplying around Van ockmen of the di that it is time to tance of their distri centre on the rest

they are doing it um of a live stor annual exhibition h 12 last. The show the district club w

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the belief that the ue to grow from Avrahires were -numbers. All clas-ed, a notable featu number that had R R. O. P. ancestry. of Huntingdon pla Mode, George M. 1 Mode, Geo



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June 24, 1915

With the Chicks] -----C. McKenny, Kent Co., Ont.

HE baby chick trade has perform-ed one useful service to the poultry industry as a whole--it is demonstrated how long chicks il live without food when first has hatched and still make healthy and vigorous stock. I am never in much vigorous stock. I am never in much of a burry to get the chickens off the pest or out of the incubator. Occa-sionally they are taken out 36 hours after hatching. My usual rule is 48 hours, and occasionally, when work pressed, they have been left even learer. Nature has left the yolk of the evg in the chicken as in first

food When the chicks are removed to the brooder, their first meal is of clean, fine sand. This is scattered over the brooder or hoover floor. Along with it is scattered clover or alfalfa leaves swept up in the barn mows. Pure Pure water is kept before them at all times water is kept before them at all times and butermilk when we have it. If I cannot secure buttermilk, I allow fresh skim milk to sour. The lactic add bacteria of the sour milk, I be-lieve, has a very beneficial effect on the direction of the chicken. Down to Grain Feeding The next feeding coefficient of well.

Down to Grain Feading The next feeding - mains is of rolled-tats and finely graded wheat, fed five times a day on a clean hoard, and only in small quantities such as will be cleaned up immediately. In a rew days I begin to substitute mosh composed of two parts of wheat bran, one part of corn meal, one part shorts and one-half part rolled oats. To every 100 pounds of this mixture is added a handful of very finely ground charcoal, a handful of bone meal, and a handful of fine table salt. Their feedings are reduced to three a day and commercial chick food fed in the litter to keep the chicks busy scratch-ing, the litter, of course, being a light are of alfalfa and clover leaves. "When the chicks, are removed to

When the chicks are removed to the colony houses, they are fed from hoppers. From then on the dry mash hoppers. From them on the dry mash is fed in one hopper and cracked own and wheat hi Another, and crit in a third. They are expected to get green and animal food from the soil. One point I would emphasize in the feeding of young chickens, and I have learned it from dearly bought experience. Be very careful to feed pothing saity. Too much sait will kill chickens as fast as skunks, wea-sels or stark cats. els, or stray cats

The Vankleek Hill Show

DURE BRED dairy herds have been PURE BRED dairy herds have been multiplying for some years around Vaukleek Hill, Ont. Stockmen of the district have decided that it is time to impress the impor-tance of their district as a live stock centre on the rest of the country and they are doing it through the medi-monal shifts the stock show, the first and the stock show, the first and the showing held on June B last. The showing held on puse the district club without counts by assistance and the success of their assistance and the success of their first meet was such as to encourage the belief that the show will contin-

animal that stood at the head of the herd of J. W. Logan, Howick, Que., for several years. A right good bull was the two year old Bonnie Brae Lac, shown by McNab Campbell, that Lac, shown by McYab Campbell, that was later awarded the championship. It is noteworthy, too, that this ani-mal is a greatest producing Ayr-shires. Thomas McIlwain was first in yearling bulls, G. M. Renick in Sr. bull calf and G. D. Mode in Jr. bull calf. The close for metric with

bull calf. The class for mature milch cows brought out 12 head, practically every entry showing good udder and teats. W. J. Douglas was first with White Rose, Mode second and third, and Renick with several good ones outside the pronew the money. In three year old cows, Mode got first and second. In two Mode got first and second. In two year olds, Douglas first, in three year olds, first and second went to Renick, and the first money in the younger classes was divided between Renick and Mode. The champion female was Douglas' mature cow. These the Stability

was Dougnes' mature cow. Holstein Exhibits There were but two herds of Mr. D. A since exhibited, those of Mr. D. A since exhibited, those of Mr. D. A since exhibited, those of Mr. D. A Mr. J. Johnston of Hawke Farit and the classes were of merit, the aread females attracting particular atten-tion with their strong udder devel-opment and desirable dairy conforma-tion. In the aread bull class Pietertie De Kol Beauty exhibited by McPhee, was first, M. G. Gibson, second, and yone two yeard dair They was only one two yeard dairy and the second one two yeard dairy bull hoors? went to C. Samula J. Johnston and J. McIntosh, in the order named. The senior bull call Sir Roxie Posch, shown by J. McPhee, was later made grand majon. McPhee also had the five more call.

shown by D. McPhee, was, later made grand mpion. McPhee also had the fire sour calf. The are ow class brought out a string of eicht with Johnson's Jewel Bell Dewdrop on top, closely follow, ed by McPhee's Kate Sylvia and Lily Tensen. In the other female class-es McPhee had things very much his own way in awarding the first money, but the championship went to J. Johnston on his mature cow

but the championship went to J. Johnston on his mature cow. In the dairy test, which was a fea-turs of the exhibition, D. A. McPhee make practically a clean sweep, win-ning first, second and third in the class for aged cow, first and second in the three year old class and first in the two year old class.

United Farmers" Progressing

R EPORTS of a most encouraging character were presented at a meeting of the executive com-mittee of the United Farmers' Coop-The order of the executive com-mittee of the United Farmers' Coop-erative Company Limited, held last week in Foronto. There was prac-timely of the executor, only one sent. Sales have been minimized in a most encouraging manner. On one day alone last week, orders were sent out to the value of \$1,900. The first shipment of binder twine from Ireland, comprising six cars, has been received and dist' buted, and so far the twine has give. excel-lent satisfaction. Many more orders were received than could be filled out of the supply of twine from Ireland.

were received than could be filled our of the supply of twine from Ireland. For a while it looked as if these or-ders would have to be refused, but recently the company has succeeded in makine arrangements with a large fit of Canada for an additional quan-fill all order which will enable it to fill all order which will enable it to fill all orders.

fill all orders. On account of the many demands for price lists and information about the roods handled by the company, the executive decided to issue a price list with the least possible delay. vir-ing the information desired in a concise simple and reachable manner. Last week, Secretary J. J. Morrison had a busy time attending meetings at Kincardine, Embro and points in the northern parts of W. Ontario.





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at the

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OUR GUARANTEE

OUR OURANTEE We shall sets? a this because the aver-tisting columns of Farm and Dairy are as carefully added as the reading columns, and because to protect our reader, we turn aways it lets deal dishonetty, with you as one of our paid-indvance subscribers, we till make food the amount of your loss, provided undo turn and the sets of the sets of the sets transaction occurs within one aw within a week of its cocurrence, and that we find the facts to be as stated. It is a condition of this contract that in writing to advertisers you as: To dues shall not ply their trade at the expense of mar subscribers, who are our friends, through the marking of these dimensions between subscribers and buomaritie business men who advertises, one pay the models of honest bonkrupts.

The Rural Publishing Company, Limited PETERBORO, ONT.

"Real not to contradict and to confule, nor to believe and take for granted, but to weigh and con sider."-Bacon.

"Reconstruction

IN a recent editorial under this heading. The Toronto Daily News endeavors to impress on the country the gravity of present industrial conditions, and the need of some definite, vigorous policy of reconstruction. "We have an industrial and railway equipment for 15,000,000 to 20,000,000 people," says The News, "and there should be a supreme effort to make equipment and population balance." As a means to this end The News suggests "a conference between

Dominion ministers and the Provincial prem with a few authoritative representatives of dustry, transportation and labor to consider the whole situation."

The great problem, The News admits, is to get the people on the land. But is this so difficult a problem as to necessitate the calling of a great Dominion conference? To us it seems to be simply a matter of making the land available to the people who wish to work it and removing legislative obstacles to profitable agriculture. Just how the opening of natural resources to free development solves the problem of unemployment, was well illustrated by an incident of the South African War. After the war, Captain Josiah Wedgewood, an English single taxer, was military governor of the city of Ermelo, South The city was thronged with destitute Africa. men, while, as in Canada, there were thousands of acres of unused land around, and an abandoned coal mine. Here is how Captain Wedgewood, who was recently wounded in the fighting at the Dardanelles, solved the problem :

"I decreed that all men might work this land "I decreed that all men might work out mice and mike the coal without interference," said Captain Wedgewood, in a recent interview. "From that time on all men were free in Erme-lo, because they could work for themselves, and get the product of their labor. The employed 10, Decause they could work not inclusively and get the product of their labor. The employed workers were free, too, for they had the option of quitting and working for themselves if they saw fit. Wages rose to five dollars a day and em-ployers complained of a scarcity of help."

In Canada there is an abundance of good land close to shipping facilities held out of use by speculators. Were all the taxes of the country placed on land values, these men would have to vacate in favor of the men who would use the land in a productive way. Were this done, the problem of unemployment would solve itself, as it did at Ermelo, in Africa. Such a method, however, would be far too simple, we fear, to appeal to the rank and file of our legislators. Also it might interfere with the unearned profits towards which many men in high places are looking as a result of increasing land values.

The O. A. C. Summer School

THE last week of July and the first week of August will see still another innovation in the work of rural betterment in Ontario. During these two weeks there will be held at the Ontario Agricultural College a summer school for rural leaders. Amongst those singled out as coming within this category, school teachers and country clergymen are specially mentioned, but the course is open to anyone interested enough to attend. The list of speakers already selected as published in a recent number of Farm and Dairy, indicates that those arranging the course do not intend to make the proceedings resemble a short course in the elements of agricultural science, but a conference in which the larger aspects of the rural problem will be intelligently dealt with by competent authorities.

It is reassuring to note this indication that the futility of endeavouring to give those in attendance a course in scientific agriculture, is recognized. Any attempt to induce them to cram scientific facts would be disastrous. Should they go home from such a course surfeited with half-digested lectures they would be in exactly that frame of mind in which they would be of least use to their communities as leaders. The quickest and surest way to dampen a person's ardor for rural betterment is to try to teach him all there is to learn about agriculture in two weeks. The surest and quickest way to stimulate that ardor is to provide a course of lectures that will inspire and encourage him in his struggle with the rural problem.

It is to be hoped that beside the leading addresses there will be ample opportunity for full and free discussion by those in attendance. Most men and women are as much inspired by the sound of their own voice as by the most eloquent gration; especially is this true of those who may be looked upon as rural leaders. It would be folly to suppose that a monopoly of the knowledge of rural affairs is held by those who will give the leading addresses. Those most likely to attend are the very ones who have ideas on the subject. The wisest policy would be to utilize to the fullest extent the ideas and experience of those attending.

Packing House Profits

T takes a good steer nowadays to bring eight dollars a hundredweight. But the cheapest cuts sell at retail for twelve cents and the best cuts at over twenty-five cents a pound. Who gets the difference between the price paid by the consumer and the price paid to the farmer In the past the packer has been made to bear a large share of the responsibility and the big dividends paid on packing house stock have been cited as proof of his culpability. Packers, on the other hand, have maintained that they have very small profits on their turn over and that big profits on capital are the result of a great volume of business. Investigations recently conducted by Kenneth F. Warner, of the Minnesota College of Agriculture, seem to prove that the packers have been honest in their contentions.

Mr. Warner ascertained that the dressed carcass is only fifty-one per cent, of the live weight June 24, 1915

for cattle, seventy-seven per cent. for hogs, and forty-seven per cent. for sheep. In the case of beef, the packer sells the whole carcass for less than he paid for the live animal. For example, in 1913, on one market, the average price paid by packers was \$6.25 a hundredweight, a thou. sand-pound steer costing the packer \$62.50. He sold the carcass for \$58.65, and got \$15.06 for by-products, a gross margin of \$11.21. Out of this \$11.21 the packer had to pay the expenses of his packing plant, freight to local distributing houses, and the operation of these houses. The retailer paid \$58.65 for the carcass and sold the whole for \$84.20 to consumers, his gross margin being \$25.55, or 30.3 per cent: of the selling price. Since it costs retailers twenty to twenty-five per cent. of sales to do business, it is apparent that the retail butchers were not making inordinately large profits.

According to these investigations neither retailer or packer are making exorbitant prices. But the fact of the high cost of living still remains. Consumers find it hard to make both ends meet and farmers must be content with hired men's wages if they would have anything left as interest on investment. We wonder if the commission appointed by the Dominion Government some months ago to enquire into the high cost of living in Canada, have yet delved deep enough to throw additional light on the situation?

The Jitney Bus

T HE jitney bus, a recent development, is now offering such serious competition to older methods of transportation in our cities, that street railway companies are endeavoring to have them taxed. A jitney bus, we may explain, is an automobile large enough to carry several passengers, running over certain prescribed routes and asking the same fare as the street car-five cents from each passenger. The jitney, having proved its usefulness in the cities, is now being introduced into rural districts in some parts of the United States. In our own country, automobile stages have become quite general, and they may be the forerunners of jitney bus lines in rural Canada. Is it too much to suppose that following close on passenger jitneys there may be a regular automobile freight service for country communities? Changing methods of transportation have worked revolutions in social and commercial life in the past, and there is a possibility that the jitney may work a similar revolution in the future.

One of the changes that we would expect from the general adoption of the jitney in rural districts would be a still further decline of small villages and the building up of centrally located Another effect, still more far-reaching towns. in its influence, would be the equalization of farm land values. There would be less of a premium on farms situated right close to shipping facilities, while other farms, situated farther back from railway stations, would increase in value The automobile is already tending to bring about such an equalization. Farm folks, with the cheap services of the jitney available, would get away from home more frequently than in the past and the rural neighborhood would be widened. These are some of the changes we may look for in the not distant future, if the jitney proves as set viceable in the country as it has in the city.

I would like to see every farmer in this country employing one, or better, two, hired men the year round. That we are not doing so is a confession that we are novices in farming. we visit the Old Land we will not see the farmer working with the assistance of one of his sons. He is working with half a dozen men. He is not making £100 or £200 clear a year, but £200 or £250. We are not getting one-half out of the land that we should and part of this is due to too much economy in labor .- J. H. Grisdale.

June 24,

Why E

A silo adds farm. By the use canned very m fruit, preserve In no other produce so lan fred from an a ing corn and

silage. The succule possible substi It is relished of the year.

In winter co them up to su Every winter the dairy line. ntroducing

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-Photo by an e

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ner in this countwo, hired men ot doing so is a in farming. I ot see the farmer one of his sons en men. He is a year, but £200 ne-half out of the of this is due to H. Grisdale,

June 24, 1915

FARM AND DAFRY

Why Every Farmer Should Have a Silo I (Continued from page 2)

A silo adds to the appearance of a

By the use of a silo the fodder is canned very much as a housewife cans fruit, preserves and vegetables. In no other way is it possible to

produce so large an amount of good feed from an acre of land as by rais-ing corn and making the same into

The succulent silage is the best possible substitute for June pastures. It is relished by cows at all seasons

of the year. In winter cows can be fed a palat-able balanced ration that will keep

them up to summer flow. Every winter we see a shortage in the dairy line. This can be overcome y introducing silos. With a silo you can keep more

acres and will leave more land for the other crops. Ensilage has a higher feeding val

ue than roots Ensilage increases the milk flow. The silo and its product must now be regarded as a fixed factor in farming

Silage is more palatable to cattle. It has been proven that folder corn or ensilage yields twice the dry mat-ter that can be secured from a crop of roots grown on the same land. It increases the milk and crea cream production and decreases the feeding cost

There is a large number of crops suitable for ensilage, such as the or-dinary grasses, clovers, lucerne, vettoats, rye, corn and various chles weeds.

By all uniting in its use will help build up the country. It stands like a beacon light to the

farmers and points the way to safety to those whose course to independence is beset by crop failures and highpriced feeds.

It can be fed to all kinds of stock. A silo saves lots of worry and anx-iety, thus ensuring a longer and haplife

It will save two of the most expen-

William P 10-10

When Clearing Land Leave a Few Trees for the Cows' Sake.

-Photo by an editor of Farm and Dairy on the farm of O. Kendrick, Dundas Co., Ont. Your creamery cheque grows larger sive crops, that is hay and grain. It is use. The work is all done at one time. Keens folder contents pure, succu-

w its use. Keeps fodder contents pure, succu-

lent and palatable in every clime. A silo is a watch tower that marks the advancing line of progress in ag-

Ensilage increases production. Ensilage saves labor. A silo is not an experiment but has

been proven.

The present high prices of feed stuff and of live stock make it im-perative that the farmer conserve the wealth which their acres produce. Silage has been demonstrated with-

out doubt to be one of the best feeds

for dairy cattle. When pasture lands are very high it is more profitable to provide suc-culent feeds through the silo than by

Silage can be kept longer than any other succulent feed.

All successful dairymen consider a good silo a very necessary part of their dairy equipment, and the silage contained therein greatly increases the milk flow.

There is as much good in good milk producing silage as in green summer

The silo means the succulence of asture all the year round. Ensilage is a cheaper feed than

Ensilage means thriftier cattle.

It fattens cattle more quickly. A silo will pay for itself the first year, and after that it is all clear profit.

Silage is a necessity for the mo economical production of milk and tutter fat, and the silo should be on every farm.

't is one of the best investments on the farm.

There is no way to store, ton' for ton, succulent feeds so cheaply as by

cheapest and most convenient way of handling the corn crop. Ensilage helps to prevent diseases

the herd. A silo would help to sell a farm

to a better advantage The fact that all farmers who have

The fact that all farmers who have tried the silo are unanimous in its praise would seem to form the best possible recommendation for its use. In summing up would say: It has been abundantly proved that ensilage a wholesome and nutritious forms food for cattle. It can be substituted for root crops with advantage because it is sugculent and digestible, milk resulting from it is good in quality and taste. It can be secured largely and taste. If can be secured targety irrespective of weather. It carries over grass from the period of great abundance to the time when none would otherwise be available and a larger number of cattle can be sup-norted on a given area by the use of would be then be meetible be the new ensilage than is possible by the use of other crops.

Everybody may think he or she knows the potato, but a perusal of Pamphlet No. 2, issued by the Publi-cations Branch, Department of Agri-culture, Ottawa, upon the Solanum tuberosum, will convince the same he or she that there is much to learn. A reprint from The Agricultural Gaz-ette, official mouthpiece of the De-partment, the pamphlet is a collec-Department, the paniphet is a control of a tricles of superlative worth. Everybody concerned in potato-grow-ing will be interested in this pamphlet and should send for it to the Publica-tions Branch. Department of Agriculture. Ottawa

Where corn is killed by grubs why not try seeding alfalfa without nurse crop?



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UNORK is the best thing to make us love life .-Ernest Renan.

When to Lock the Stable

By HOMER CROY

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(Continued from last week)

HE band struck up and the wag-ons began to fall into line. Clem started towards the source of music but bumped into a stout man. The individual was dressed in a long sic The individual was dressed in a long frock cost, and peeping out from was a flaming red waiscost, while a was a flaming red waiscost, while a between the second second second the breze as if to attract the eye cost. Under the wide sombreo and in spite of the shaven checks Clem at last recornized his nartner of the at last recognized his partner of the

at last recognised "Puttin' on the furniture for com-"Puttin' on the furniture for Clem's puzzled look. "This is our busy day. I've spoken to 'the colonel' and fixed everything up. The pickin's ought everything up. Th to be good to-day."

It was not just exactly clear to Clem who that mysterious individual was whom Brassy referred to so fa-miliarly with his martial title, nor did he know just what the pickings were but his satisfaction at being a mem-ber of the circus troupe kept the

whetstone off his curiosity. "Yes," agreed Clem, "they ought. I don't know as I ever saw a finer day for "em."

One of the animal trainers in his One of the animal trainers in his spancles, rushing by to catch up with the parade, called out to Brassy: "if's kind of late for strawberry shortcake, ain't it?" Brassy, with his thumbs stuffed tightly in under his belt as if he

could never get them out, waved his elbow and smiled. 'What does he mean?" asked

Clem

'Oh, that's just some of their talk When this parade gets back we'll go

to work." "I guess I'm pretty slow, but what am I to do, Mr. Hagan?" This was just he chance for Bras-sy. He lived and flourished on words. He could juggle them about with the ease and definess of a Japanese ac-robat handling a barrel with his feet. "After a lot of trouble and schem-

in' I have at last succeeded in hav ing you made my first understudy. I didn't know whether I was going to be able to put it over at first, but at last I brought 'the colonel' around to my way of thinking and I am happy to tell you that you are now a qualifi-ed member of this famous circus troupe-chief assistant to Professor Hagan, Ophthalmologist and Manipulator of the Moving Shells. I am caried along by this educational organization to enlighten the minds of the great mass of the people who have more sinkers than sense and who do not believe that the movements of the hand are quicker than the images thrown on the retina of our organ of sight. To prove this I as-

semble three shells of the English sensite three shears of the English walnut variety, place under one of them a single matured specimen of one of our commonest garden pro-ducts—the homely pea—shift the pea-shift ducts—the homely pea—shift the shells rapidly with first one hand and then the other and call upon the spec-tators to point out which one of three shells shelters the productive pellet After they have declared their certain After they have declared their certainted their certainty as to which houses the product of the pod, I ask them to back their judgment by something that goes over the counter, and after they have complied I raise the shell. Rarely and after due reflection I might say never-does the shell designated by them cover the object of the search. To teach them humility, respect for the judgment of others and a lesson not to make the same mistake when the next circus comes to town, I take the next circus comes to town, I take the long green and wish them a merry Christmas and a Happy New Year." Clem blinked hazily for a moment. "Then the man at the door takes the tickets, does he?" Brassy harded "Wear"

Brassy laughed. "Yes. Everybody takes all they can get. As soon as the parade's over we'll stoke up."

In a few minutes the tra-boom, traboom of the drum, sounding like thunder over on the other side of the river, came rolling in and as the head of the line swung into the grounds the gilded wagon boomed out a final swinging selection. A great crowd of boys and men-boys first and seasoning off with men-flooded in on the heels of the parade. The clown in his cart was the fav-The clown in his cart when he reached over and scratched the donkey with his umbrel-la and called out, "Whoa, love!" orite. and it kicked up right in his face the boys yelled with glee and took it up:

"Whoa, love! Whoa, love!" The clown waved a friendly hand to Clem and disappeared into the dressing tent.

Erassy came up with a handful of ills. "When I get the game goin' ou come up and unwind your poc-etbook and put down a five. You hills. you come up and unwind your poc-ketbook and put down a five. You win, wrap her up and blow on. Take this five, and ofter a while when you get a wad and the crowd breaks you can slip 'em back." Clem held the bill by the corner, as though it was a lizard by the tail. His lips parted and his breath went in. "1---you meam--" "Shortake so early" and out ope

"Shortcake so early?" sang out one

of the circus men, hurrying by. The flood of men and boys, with here and there a white dress flecking the current, rolled on, swirling around the ticket wagons and eddying around the side shows; the older men with the side shows, the other men with their shirts open at the neck, heavy brass buttons swaying on their collars, and the young men tortured under high celluloids.

In a bayou of boys Brassy appeared The clown's with a folding table. Pulling up his his little finger, sleeves and pushing back his som. At first when breto, with bills waving through his to the crowd h fingers, he began:

"Everybody likes a little innocent scrutiny he saw the hand pass on ever fun and amusement. It quickens the the spot where the pea was lying, the pulse, it stimulates the mind. No finger seeming to twitch. Then he pulse, it atimulates the mind. No finger seeming to writen. Area to two pairs of eyes in the world are knew that Brass had scooped it gp. alike: your eyes are disferent from A farmer boy with thick browned mine and both are unlike those of this hands and a big presidential button here gentleman. Science has never on his supporters unwrapped a free-splained this fact, but fact it is. Allar bill from the corner of a news Some eyes see fast - some slow. Strange as it may seem, the movements of the human hand are faster the suells, than the eye. If you'll gather around "Five closer I'll endeavor to make my meanin' clearer. Boys not allowed. No crowding, please. I have here, as all may see, three half walnut shells, and everybody who cares to look may see this pea. I put this favorite of the garden under one of the shells, pass my hands over them a few times, movmy hands over them a few times, mov-ing some, shifting others — and who knows where the pea is? The gentle-man was right. You tell us, stranger: wrong. Sometimes you hit it-some-times you miss it. Whatever you put down 1 cover. I cover it if it takes the gold out of my teeth and shoes off the baby. We must work fast, boys, for we never know who's comin' The gentleman in the straw hat guess-ed it right. Keep the chicken feed ed it right. Keep the chicken reeval -poultry's goin' up. This gentleman says five: watch me carefully--watch every movement. He wins. My loss. Who next? Some people has good eyes-some bad. Hands off the table. The quicker you play the quicker you get your money.

Clem, standing at the edge of the crowd, marvelled at the ease and rapidity with which Brassy shifted the shells; watching as carefully as he could, he could not pick the shell that

housed the pea Something bumped his elbow. It



That Was My Short Cake.

The clown's face parted : "Watch

At first when Clem wove his way into the crowd he could not catch the finger at its work, but on closer

paper and put his money on the table Bras w promptly covered it and shifted

Watch

"Five times on the board. Wated "Eive times on the board. Wated me carefully — it's under only one ef-"om. Which one, pardmer?" A thick brown finger pointed. A small white finger twitched and the pear gollad out from under another pea rolled out from under anothe shell, and the bills disappeared into Brassy's pocket. "One man loses -Brassy's pocket. the next one lucky. Who gets the next money."

The boy stared with hard unbelier. ing eyes a moment, then backed out, his face burning. He wandered over the grounds. Lost! a week's work gone at a puff. He met an older man with the same thick browned hand and drew him aside. The older man listened for several minutes, then re luctantly unwound his wallet an handed the boy a bill. The boy darts away, out of sight of the older man The boy darted then melted into the crowd around the folding table.

"If your eyes fool you once don't If your eyes rost you once don't let them do it again," Brassy was singing out, hitching his sleeves u higher. "It all depends on how clear you watch the shells. Where is it now P

A browned finger started to read out but Clem pushed the hand away, and stepping out of the crowd, ma tioned to the boy to follow. "Son," he said, "I saw you get the

money from your father, and it's goin just where the other did. You ain 1 don't see what becomes of that The hoy reddened, and a girl? pea. Sometimes I would bet my old eyes, nodded. black hat that I knew where it was, "Hunt her up, get her renord abeli t tain't there."

their appreciation is to-, Clem's while the tongue held still Catching sight of flutter of ribbons, h arms began to swing and in a minute the sleeve of a white dress pushed into the book of his arm. A heavy hand M

Clem's shoulder He turned to los into the flaming on of Brassy.

"What the hell à you mean? That w my shortcake and m jerked it out of a Instead fingers. capping people in fa me, you're drivi them away. Wh Wh you got to say f

Slowly Clem's a aged face calma 'I used to walk a raged one side of a row corn and come but on the other," he n turned deliberate "and I know h hard that boy's mon comes. Besides, you (Continued nert with The Upwa *********** The Rift in t

...........

J-Psalm 123. It was gave a great up a balcony, far a which had a clear city. Tall steeples, city. Tall steeples, and stately building green woods and a that intervened. A dreary morning. Clo threatening. Fields untains were share

Suddenly, just aft as over the centr reat break in the #25 ne kighest towers and gloom they re beavens, clear, pure Ever since, that y wonderful help, cau to rise to the Power e, in the surroun has roused to highe daily, common-place strengthened in the and weariness red the moments couragement.

The inspiration w by the glory in that That thought sugg

"Till at the last a Or crowned with Like glories move We know not what wes are working i f by a higher stren hem, and, in spite hrough them, into the reatness of noble . .

Don't Kiss

F some babies coul are being caresse air, and in variou they might give ver prising to these s writer in the Canad Journal expresses

of note: For the first few should do little but should not be tossed tickled, nor should i visiting; its feedin regular, and betw

The persecution affer at the hand and family friends Leave the babies of

The death rate years of child life is that every added safety.

The most frequer iortality is improp pu-o milk; the st boon babe is a very delicate affair, but action of this small all growth comes, a Nature has prepar omach is the mot The wise mother nursing her child child's sake, but als mother-fed child is apes a hundred da bottle-fed babe is Nature and it is w for child. Nature it is when we stray

In mortality begin The mother must

, 1915

d: "Watch

his way in ot catch the pass on over is lying, the Then he oped it up. ick browned ntial button

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u once don't Brassy was s sleeves up on how close Where is it

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you get this and it's going d. You ain't a than butter tot a girl?" dropping his

har reserve d time. The g to-morrow. pouted eyes preciation in 's while the held still g sight of of ribbons, h gan to swim a minute t of a white ushed into the his arm. avy hand M m's shoulder

rned to los a flaming on sy. t the hell d

an? That w tcake and m it out of m Instead a people in in ou're drivin away. What t to say h

y Clem's a face calma d to walk a e of a row nd come but other," he n deliberate I know he int boy's mon Besides, Main't honest nued next wa

********************** The Upward Look The Rift in the Clouds

UNTO The lift I up mine eyes," -Psalm 133. It was a vision, that save a great uplift, seen from a balcony, far away from, but which had a clear view of a large dry tall steeples, graceful towers a state buildings recea above the city. Tail steepies, gracerul towers and stately buildings rose above the green woods and across the valleys that intervened. All was a dark, directening, Clouds were low and hireatening. Fields and river and mountains were shadowed and forbid-

Suddenly, just after sunrise, there was over the centre of the city, a great break in the clouds, and there highest towers and tallest build-ings were all resplendent in those ear-

ars were all respiendent in those ear-by morning rays. Above the shadow ad gloom they rose towards the heavens, clear, pure, gleaming. Ever since, that vision has been a wonderful help, causing the thoughts nor is to the Power behind that radi-nors, in the surrounding darkness. It he could be higher endages in the ance, in the surrounding datasets, as has roused to higher endeavor in the daily, common-place duties. It has strengthened in the hours of weak-ness and weariness. It has encouress and weariness. It has encourscouragement

The inspiration was brought about by the glory in that sombre setting. That thought suggested Tennyson's

"Till at the last arose the man, Or crowned with attributes of woe, Like glories move his course."

We know not what the clouds and the shadows and the darkness of our the shadows and the darkness of our jies are working in our characters, if by a higher strength we rise above them, and, in spite of them, and through them, into the beauty and the greatness of noble Christlikeness.

I.H.N. ... Don't Kiss the Babies

F some babies could speak when they are being caressed, dandled in the are being caressed, dandied in the air, and in various other ways made ancomfortable by admiring relatives, they might give vent to their feelings in a way that would be rather surprising to these said admirers writer in the Canadian Ladies' Home Journal expresses some pronounced views on this subject that are worthy of note:

For the first few months the babe should do little but sleep and eat. It should not be tossed about, kissed and tickled, nor should it be hawked about, visiting; its feeding hours should be regular, and between times let it

The persecution these little ones suffer at the hands of silly relatives and family friends is really pitiful. Leave the babies alone and let them

The death rate in the first three years of child life is greatest, and after that every added year increases its safety.

The most frequent cause of infant mortality is improper feeding, and im-puto milk; the stomach of the new boon babe is a very small, and a very delicate affair, but it is through the action of this small and delicate organ all growth comes, and the food which Nature has prepared for the babe's stomach is the mother's milk.

stomach is the mother's milk. The wise mother will insist upon nursing her child not only for the child's sake, but also for her own. The mother-fed child is the one that escapes a hundred dangers to which the bottle-fed babe is exposed : follow Nature and it is well for mother and for child. Nature loves her own, and it is when we stray from her that in-

ani mortality begins. The mother must be well fed if she

would feed her child; make no mistake about this. To-day we have so many food fasts, and eats so many things that have really no food value, that often the mother's milk is deficient in cer-ta'n essential elements necessary for the achild records. the child's growth. Think of all the elements required.

bore, muscle, energy, nerve (we can't live to-day without nerve), the heart, lungs, in fact all the thoracic viscera, all the abdominal viscera, the skin, the in the soluminal viscers, the skin, the brain-all must be fed and kept grow-ing; and the mother must through the food she takes provide for herself and he; child.

It is not difficult to understand that a most generous diet is required to meet these demands. Every food stuff should be a part of the mother's daily rations from the time of conception until the child is weaned. There is no better resting place for a child than in a roomy carriage on the

verandah, sheltered from the winds, or in the south room of the house, well ventilated and warm in winter time.

ROBABLY after washing son P ROBABLY after washing some of the bedroom curtains in the spring, you have found that they came through the wash and the stretchers rather badly worn. Pro-bably you darned and natched them up, saying to yourself that you would make them do until fall. Here is a way in which strains may be made suggression may nave the way for you to have a new pair of curtains for the summer after all:

to have a new pair of curtains for the summer after all: Purchase a fairly cheap grade of unbleached cotton, and in order that curtains may not be too plain, add a fringe of old-fashioned candle-wick-ing. A heading may be left at the top of the curtains and the rod run through a casing. In adding the fringe, one has to punch holes half an inch or so apart all round the hemmed side of the curtain and the











T. W. BOYD & SON,

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otre Dame St. West. Me



end and tie the candlewick in each hole. Cut the wicks four and a half inches long, and when tied it will make the fringe one and a half inches Curtains made from such terial give a soft, creamy light in the room, and on account of their inexpensiveness, one can have an extra pair on hand to hang when they are needed to replace others. -----

OUR HOME CLUB

An Interesting "Pen Chat"

HAVE been an interested reader of the different letters in the Home Club columns dealing with the "Hired Man Problem," and as others are invited to express their opnions I gladly come for a little pen chat.

pen chat. I quite agree with "A Satisfied Hired Man," and cannot understand why our hired man while under the roof-tree in our own home should not

be treated as one of the family. Why, I ask, should his position as our salaried assistant, demean him? our satarice assistant, outer and a prove our morals, so as not to con-taminate our hired men, the better for us. I have given the subject careful thought and in no other way careful thought and in no other way can I account for the mar's suppos-posedly nenial position, unless it is because he consents to do our work; for in other walks of life employees are treated as equals by their em-ployers, not as inferiors. Our professors had to begin at the feast of the ladder by learning the lat.

foot of the ladder by learning the let-ters of the alphabet. No disgrace. Schools are a government institu-tion, so why should we not God-like tion, so why should we not continue try to educate our young hired men, if we find their earlier training has been slighted. They, perhaps, have not had our privileges, our envirou-ments, our circumstances. We know ments, our circumstances. We know as surely as water bends and shapes itself to any channel, and aid folds and acapts itself to each new figure, so are our habits formed, our very character moulded by our sourclund-ings and by our youthful trainaines Wei, typefallened. Our natures then are most plinat, and if surrounded by bad influences we can readily are most pliant, and it sufrounded by bad influences we can readily guess the result. It is the parents or guardians of these young men, such as "Perplexed Sister" describes, who as Perpiezed Sister describes, who are to blame, not the poor, misguid-ed youth. But I believe such are in the minority. They are the excep-tion not the rule. Oftentimes the one employed is superior in every way to his boss.

to his boss. We do not live in Africa where blacks are looked down upon as infer-iors, nor yet in India, where they have different castes. We live in a Chris-beliate different castes. We live in a Chris-tian land where we profess to believe "The last shall be first and the first last." It seems to reaching the first It seems to me cobwebs last. being drawn over our eyes when we belittle ourselves talking so much and casting slurs on honest, decent men. Why not also discuss lives of men in why not also discuss lives of men in others walks of life, for instance the doctors, lawyers, etc.? The fact that a man is poor and is compelled to earn his own living is no disgrace. Our Saviour learned the carpenter Our Saviour learned the carpenter trade, and was one of the poorest. He is our Great Example: so what have the hired men as a class done to be held up to such ridicule, or why do

the alone merit such confass In our home our hired man gets as good a room, as good a bed as the boss (and his is perfect), and our boss (and his is perfect).

boss (and his is perfect), and our hired men appreciate it. too. Once being short taken for help in harvest I was fortunate enough to se-cure the services of a man from an-other part of the country. He arriv-ed at our home one night near mid-night. He was shown to his room, and as the hour was hat he quickly extinguished the light, not properly

taking in his surroundings. At home his mother never reproved him for expectorating on the floor, so in our room he indulged in this filthy habit. morning upon arising he ticed the extreme cleanliness of the room, and shamefacedly he came at room, and snamenecedy he came as once to his mistress, confessing his misdeed, and promising the like would never occur again—and it did not. This was one instance of the mother being to blame: so mothers take a hint and do not neglect your boys' education at home.

I could write to greater length on this subject; but as my letter is al-ready lone I must not intrude by takready lone I must not intrude by tak-ingr up too much valuable space. Be-fore I leave may I make comment on one paragraph of Cousin Made's letter which appeared in your issue of May 13th. While I enjoyed her letter and arree with many of her fine thoughts, still with one I disagree, and that is her sucression that the "old folks build a small house on the firm, and give up their home to the young folks." Now, why not leave the home, toks." Now, why not leave the house, so dear to the hearts of those who earned it, in the hands of the own-ers? Let the son and his wife repair to the small house. Let the young couple creep before they walk, but do not have the parents turn backward by stepping as it were, down and out. The happy parents are those who hold The happy parents are those who note the reins of power as long as they live, and such is just and right, and live, and such is just and right, and live, and such is just and right, and my earnest advice to parents is, "Do not give up your independence." If you do, you may regret when it is too late for reparation. I do not speak from actual experience; but I have heard sad, pitiful tales from lonely. dependent parents, and have heard their expressed regrets at neard their expressed regrets at nav-ing been so foolish as to give up their place in the world, and as it were, with no aim in view, only to await Death.— "Farmer."

...

The Summer Sunday Dinner

D ERHAPS there is no command-P ment of the ten that has been so universally kept as "Six days shalt thou labor." I believe, too, that in the country the day of rest is more strictly observed than in the city. The farmer allows his horses to rest on Sunday because he realizes that they will stand the summer's work better. The hired man is not expectbetter. The hired man is not expect-ed to do anything but the absolutely necessary work on Sunday, and quite often has the day to spend as he pleases. In fact, all regular work is laid aside on that day-or I might be nearer the truth by saying, the out-deer and door work

Somehow a great many of us seen to be coming to consider Sunday as a day of feasting as well as a day of rest from labor. But the preparation of the meals, which includes a big dinner, is not rest from labor, and vet it falls to the lot of many a tired housewife. In many communities Sunday visiting is common. I am not condemning this custom, for when people are busy from daylight to dark almost every other day of the week, it is a rest for neighbors to meet in a social way on Sunday. What I do take exception to is the way some women wear themselves out baking good things on Saturday, and not content with that, "bake them-selves" over a hot stove on Sunday

preparing a hot dinner. Even when company is not expected, the hot din-ner is looked for just the same. In summer especially, I think it is a shame for any woman to have to putter around a hot stove in a bot kit-the same summer especially. patter around a hot stove in a hot kut-chen preparing a hot Sunday dinner on a hot day. Instead of the day be-ing one of rest for her when she may have an opportunity to eather fresh enervy for the coming week's duties, it is a day of considerable strain. In-stead of it being a fixed custom that mother be free to go to church every Sunday morning if she wishes, she very frequently stays home to get dinner while her husband and the children go off to church, and brid

children go off to church, and bıŋ have something on the bieve, is to try as have something on the slunday is of fare that can be prepared the à before. Aid so far as the compa is concerned, what is good enoug for the family should also be as enough for the company. Proba some Home Club members have as ed out a plan to their own satisf tion regarding the Sunday dim and if so, I would like to hear w they have to say about it.-"S

... More Attention to the Home

THERE are two departments every farm, the farm proper a the home. If well managed farm supplies the income, the latter farm supplies the income, the item the great speeding department; hen the trendency on the part of many fa-ducing end of their business to a ducing end of their business to a detriment of the home. This vis point is wrong, contends Mr. H. Denyes, of Hastings Co. On the Denyes, of Hastings Co. On the Denyes apent several weeks last we lost an opportunity to emphase heat the several weeks of the several belief that farming will never hes attractive an occupation as it sheat be until the home receives more a tention. tention.

We non. "We should pay more attention r our home and our community that a do." said Mr. Denyes at one me ing, which was attended by an eim of Farm and Dairy. "The attine of too many of we farmers is like an of a certain Michigan farmer who a ceived a visit from his minister. The farmer was counted one of the be in the community. When they visua the pig pen, the minister was able get full information as to the ages each litter, and the farmer could up each litter, and the farmer could a to a day when his best cows h freshened. It was so in connects with every department of the we managed and profitable farm. Th they went to the house and presen sat down to dinner with the fami which included three or four brid voungsters

"How old is this little girl here?" ked the minister. The farm

"How old is this little crit here asked the minister. The fame scratched his head for a minute at then looked at his wife. "Say, Man how old is Louise anyway?" The audience had no to trouble in a preciating the point in Mr. Deny story. He went right on to drive it home. "We are trying to get a right type of cow, horse, and bor, said he. "We would be doing a mat "creater work did we direct more of on said he. "We would be doing a mag greater work did we direct more of a energies to the development of an selves and our children. Women's Work worgen are wo

Women's Work "Some of our good women are we ing too hard. Help is scarcer in the house than it is on the farm, and y is scarce enough there, ihe de farm woman did we try to be a lim knows. Why, it would even help is farm woman did we try to be a lim Come in with a pleasant endle, as if it is a hard day for her, lend a help in hand. Some of us have too mus ing hand. Some of us have too man jobs for the women folk. After th the four powers of the Arc machine four powers of the Arc machine four powers of the Arc machine for the Arc machine and th

, Much more homely philosophy along the same line did Mr. Denyes give Farmers' Institute audiences do na often hear such sentiment expressed by "a mere man," and they were sp preciative

June 24, 19



This photograph show nature a chance. Th as a park only about tree planting w

Short Cuts in Nellie E.

CONVENIEN A convenient have over a easy reach is utensils that are th hanging undernea shelves condiments ther materials as

Hang the spoons, and small things and always place th When washing d and table are with tance of the cupboa be placed on the sh thus saving one har

thus saving one har A large tray to and from the dinin step saver, but betti tray. The first cos large, but the hous to indulge in one, f an hardly be over A zinc covered ta is another most de in be put on an ped table at a cost and the saving of

is worth considering The sink, table, e such a height rson using them art without stoopin If you have a p sear out your life s t with a good lin cost about \$1.35 a arnished once or t last five or 10 year If rugs are kept will save the feet a leum. If the floor it finished so silv cleaned.

Do away, as fast the heavy iron ket minium. There is work equal to like a meat grinder xer, a good egg whip, standard me oons, all ensuring ne and materials, Corners are suc nay be tacked in ay be bought at a Save time in wareping old teasp ad baking powder When cooking eg and can be take all together.

band and u rch, and brin e, is to try and a Sunday b

June 24, 1915

epared the s the compa good enous also be goo any. Proba any. Probab own satisfi unday dinm to hear wh ut it.—"Sis

the Home

iepartments ; I managed th artment; he rt of many f to the particular to the parti emphasize b emphasize b ll never be n as it shou eives more a

the attention mainty than we at one mea at one mea d by an edite "The attinders is like the farmer who mainted attention of the second of the second farmer who mainted attention of the second of the s minister. The en they visite to the ages d mer could the in connections in of the well farm. The and present th the family or four bright

le girl here? The farmer a minute and "Say, Man, yay?"

trouble in ap Mr. Denye on to drive i ng to get the se, and hog," doing a mud ect more of ou pment of our

ork

men are work scarcer in the e farm, and t ere, the dem even help the to be a little d the house int smile, and er, lend a help have too man k. After the kept the hous washing, at school, to sa darning, and them to come e garden an 't believe the

expected to a home. k; at least, t en should haw entertain. To r worked until r work. The nake the home ey rest when he work go." ilosophy along Denyes give iences do nu nent expressed they were ap

all together.

FARM AND DAIRY



What Tree Planting Will Do for the Treeless Plains. This photograph above what can be done on the "treeless plains" if man will only reveal that is just what must be done are part only about five years ago. Some natural timber on the sine public playeround. The photograph about five years ago. Some natural timber on the sine public playeround. Short Cuts in the Kitchen Shears in the kitchen may be great is, every movement takes time and shears on the sine and some of the sine and so

Nellie E. Maxwell

A CONVENIENT arrangement to have over a table and within utensis that are the most often used hanging underneath, and on the spleves condiments, sait, and such other materials as are used in cook-

Hang the spoons, measuring cups, and small things within easy reach and always place them there.

and always place them there. When washing dishes, if the sink and table are within reaching dis-tance of the cuphoard the dishes may be placed on the shelves when wiped, thus saving one handling. A large tray to carry dishes to and from the dining table is a great atop saver, but better yet is the wheel laws, but the housewife might afford to induke in one, for its convenience can hardly be over-estimated.

is induge in one, for its convenience on hardly be over-estimated. A rinc covered table in the kitchen is another most desirable part of a well-coupped kitchen. A rinc cover can be put on an ordinary pipe top-ped table at a cost of less than \$3, and the saving of work in scrubbing is worth consistent and the scrubbing the such a height as to permit the person using them to work with com-let without stopping.

person using them to work with com-for without stooping. If you have a pine floor, do not wear out your life scrubbing it. Cover it with a good lindleum, which will cost about \$1.35 a square yard. If varished once or twice a year it will last five or 10 years with good care. If rugs are kept where standing, it will save the feet as well as the lino-leum. If the floor is of hardwood, have it finished so that it may be asily cleaned.

easily cleaned. Do away, as fast as possible, with the heavy iron kettles and buy alu-minium. There is no short cut in minum. Inere is no short cut in bousework equal to the handy devices like a meat grinder, a bread and cake mixer, a good ere beater and cream whip, standard measuring cups and spoons, all ensuring against waste of time and constraints

spoons, all ensuring against waste of time and materials. Corners are such hard places to keep clean that curved brass corners may be tacked in them. These tips may be bought at any hardware store. Save time in washing spoons by keeping old tespoons in the soda and baking powder cans. When cooking ergs in the shell use the cooking ergs in the shell use it does sifter. They will cook in all norther taken our quickly and it operator.

savers of time. Use them to trim lettuce, cut raisins and figs, dress chicken, prepare grape fruit, and many other uses may be discovered daily by the thinking housewife.

Don't waste time scrubbing a sink with scouring powder, as kerosene will do the cleaning in half the time and not hurt the enamel.

. . . Nothing Useless Is

Nothing Useless 1s Not even emptied baking powder The pound size makes a splendic chopping knife, to use in chopping potators for frying, enhance or cooked beets for salad, or other cooked vege-tables when desired to have them cut fue. Such a can is better than a vegetable chopper for salad, as the chopper crushes the fibre, instead of cutting. cutting.

The baking powder can makes an ideal tin for steamed brown bread, steamed pudding, for a cute loaf of white bread to be used in making andwiches, for baking small cakes, for cake outbres. As it is fitted with a cover, it is just the thing for hold. In a mine code ato May an acoustic ing spices, seeds, etc. Many an am-bitious plant has grown in a baking powder can.

powder can. Nothing useless is; even corn cobs make the ideal fuel to be used in smoking bacon. Odds and ends of rancid fat, and the oil from the fowl killed for dinner, may be utilized in making good scap. The cast-off overmaking good scap. The cast-on over-alis may be cut in strips and made in-to a serviceable braided mat for the kitchen door.—A. A. F.

... The Housewife's Problems

The Housework's Problems "T He reason why wome disilies housework is that they let they work master them, in-stead of mastering their work." So says Dorothen Beach, Instructor in Home Economics at the University of Maine, in a recent namphlet got out from that Station. "Judging from the conversation between women, which one sometimes hears," she con-tinues, "one would suppose that no-class of people have more monotonous duries to perform than bousekeepers." class of people have more monotonous duties to perform than housekeepens. Housekeepins, is interesting and pre-sents innumerable possibilitis, for creative power, incenuity and origin-ality. One can use all the mental power which one is willing to put into it. "One of the first things which will

help the busy housewife to solve some of the problems is to look over her time careful-ly and learn how to live on 24 hours a day. After sub-tracting sleeping, eating and dressing time, the housekeeper may find that she has left per-here 10 hours out of the 34 hap 12 hours out of the 24, all of which she spends in working. But there ought to be time in every woman's day for some out of door life and for resting and reading. How

is she to get it "Perhaps the housewife feels "Perhaps the housewire reets that there is not a single thing which she can leave undone. Let her review the duties of the day. Are all the things which she does, really essen-tial to the health and happiness of her family and herself? For instance, is in present for her of her family and herself? For instance, is it necessary for her to have cake, cookies and doughnuts, all at one meal? Would it not save time and simplify meals to have just one of these? It is hard for wo-men to distinguish between es-centiale and arone excitate her

energy. Second, there is one best way and one shortest way to perform any work done with the hands, or with hands and head working in cooperation.

In standardizing housework, Miss beach suggests the following efficiency methods:

ency methods:
1. By studying motions.
2. By applying commonsense.
3. By open-mindedness and reading what is written to help the housewife.
4. By standarding conditions under which one works: (a) Height of working surface-table, sink, etc.; (b) light; (c) ventilation; (d) right tool for the right purpose.
5. By writing down results of study to help others in their work.

Plants Require Fertilizer

P LANTS require some stimulant during the summer PLANTS require some stimulant during the summer, when they are not re-potted during the season they ought to have some fertilizer twice a week, such as a top dressing of sheep or cow manure, and then frequent week, such as a top dressing of sheep or cow manure, and then frequent when sure. Clay tertilizer dusted on the sure. Clay tertilizer dusted on beneficial. The amateur gardeneer should always remember that during the hot dry weather the tax on the strength of plants is like it is on the human system. Evaporation is sy r,paid through the lungs of plant life strength of plants is use reaportation is sy rapid through the lungs of plant life that unless plenty of moisture and food can constantly be supplied through the röbts, plants become stunted, they show a poor color and growth and eventually die.

A Dangerous"Position

A Noncer was shown an old had over the battleship. "This," said he pointing to an inscribed plate on the deck, "is where our gallant captain fail". "No wonder," replied the old lady. "I nearly slipped on it mysell." Everybodys.

According to Law

NHABITANTS of a suburb of an Ontario city are required to report I Ontario city are required to report promptly any case of contagious disease, in compliance with the regu-lations of the local board of health. In accordance with this order, Health Officer Leary received this post card recently: "Dear Sir,—This is to notify you that my bay Ephriam is down bad with the measles as required by the new law."



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JUST LISTEN TO THIS. One man started h up more that worked the

MOULD EXCEPTION. THIS INTERCEPTS YOU, don't I MY PROPOSITION Is a WONDERFUL NEW CAMERA with oan take and instantianoously develop pictures Post GardsandTilitypes. Every picture is develop the use of filma or negatives, and is ready simo nd is ready almost instantly THIS REMARKABLE the use of films or nossilves, and is ready mimosit inte to deliver to your customer. THIS REMARKAI INVENTION takes 100 pictures an hour and gives prefit from (20 to 100 por cent. Everybody wante pict and each sale you make advertises your business makes more sales (or you. Simple instructions eco pany each outfit, and you can begin to make money ame day the outfit readons you. y sach s day ti

WE TRUST YOU

WE ARKUST YOU Branch confidence have been one proposition that any property of the second second second second second property of the second match and second the second second

B. Ferris, Mgr., 70 Lombard St., Dept. 420 Toro







If you have a heavy or satisfactory hay crop and buy a It you have a neavy or satisfactory may crop and outy a silo and make silaze, you can sell your hay and feed your cows silaze and you will find that, in the first place, your cost for folder will be 15 to 20 per cent. less that if you ted your cows hay; and in the second place, your milk flow will be a good deal larger.

If, however, you have a light hay crop but have silage to feed your cows, you won't have to buy any hay or sell some of your cows because you haven't enough feed, be cause you can feed them silage if you have a silo, an wo only will they give a good deal more milk than hey would on a hay ration, but you will find that they will come out in "ood deal better shape in the spring.

Another big advantage in raising and feeding silage is that you can keep more cows on the same number of acres, and derive a larger profit from them.

Purthermore, corn for silage is the surest and most de-pendable crop that the farmer can raise. Less affected by weather conditions than any other crop, it doesn't make much difference whether the weather is wet or dry when you come to harvest it.

The Ideal Green Feed Silo

is so well known and so well liked by Canadian dairymen that we do not feel it is necessary to say very much about it.

The fact that it is a product of the De Laval factory is in itself an assurance that the material and workmanship are high orade in every particular, and if you will talk to any one in your neighborhood who has an Ideal Silo, or will look your neichbors, you will surely appreciate the prelimee of its construction and the quality of the material from which it is built.

If you are still hesitating whether or not to purchase a silo this year, blease keep in mind that if you wait much longer you may have a good deal of trouble in getting de-livery in time, because we have had a great rush of silo orders this summer, and those who get their orders in late may have to wait.

There is probably a De Laval agent in your town who will be glad to quote you prices, terms, etc. If not, an in-quiry sent to the nearest De Laval office will receive prompt attention

Be Sure to send for FREE SILO BOOK



FARM AND DAIRY

******************************** The Makers' Corner Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters reinting to cheese making and to suggest subjects for discus

Oleo Information Wanted E DITOR, Farm and Dairy,--I be-lieve that the people of Canada should know whether or not oleomargarine is a good food. Thave lived in close touch with the laboring classes of Montreal for 25 years, and I feel convinced that butter at present prices (though as a farmer I don't see how it can be produced cheaper) is a luxury for the laboring classes

in our manufacturing centres. I would like to have it pointed out from a chemical or scientific point of view wherein the "real character of oleomargarine as a food product" is bad. If it is a good food, there may bad. If it is a good tood, there may be a place for both butter and oleo, and if oleo can be produced at a price at which the laboring classes can afford to use it in place of butter, and if it is not injurious to the health it is of exhibit hearth.

and if it is not injurious to the health, it is of public benefit. At present 1 am farming, and find little profit in butter making. I have no interest at all in oleomargarine. If butter is a better and cheaper food If butter is a better and cheaper food in the long run, now is the time for the dairy interests to beware of the oleo organized interests getting a per-manent hold on the trade in Ganada. Food stuffs are bound to rise in price during this war, and the laborers of the cities will feel it most severely. For this peace we wish to have For this reason we wish to know specifically wherein oleomatgarine is not good as a food.—G. P. England, Missisquoi Co., Que.

Sound Milk for Cheese

G. G. Publow, Chief Duiry Instructor for Eastern Ontario

The Datern Analysis of the participation of the milk they deliver at the factor? Is it not because so many cheese and butter makers guarantee their patrons against loss? Suppose that cheese and butter were sold on their matrons and they deliver and the makers deliver. their merits and the maker did not-have to make good all losses. This time is coming and we must prepare for it.

sound milk enables the cheese maker to incorporate the greatest proportion of milk possible to make a palatable cheese. To put one can of bad milk in a vat of good milk, however, may make it necessary to use one-half to one pound more of wilk to make a pound of cheese, but it seems that so long as the poor cheese can be made it will be made in spite of all the dairy instruction In spite of all the dairy instruction we can give. I have been asked if it would be practical to put all good milk in one vat and all poor in an-ofter. I hardly think so, in most factories. It would need more help, and more vats. Why, however, should not the patrons of every fac-tore mass a resolution amoustring the tory pass a resolution empowering the maker to take in no milk over a cer-tain temperature. It is the farmers who own the business, not the cheese-maker. He merely provides the maker. He merely provides plant. We cannot expect the governing temperature. That would be undue interference with private business. Surely with all the years of work that dairy instructors have done, there are enough men in a factory section to see that such a proper measure would be carried through.

be carried through. The proper farm plant for the cool-ing of milk would not represent any preat investment. I venture that there is not a factory in this coun-try in which the maker is not getting better cheese and butter in cool weather. We must, however,

They new

have the warm weather to grow o

records, and if we made special pro-vision for caring for the milk and cream in this warm weather, it is then that we would get the best cheese and butter. We have three factories in Easten

Ontario that have established a tem perature at which milk will be accept ed for cheese making.

before made such good cheese as the

have since adopting this temperatur standard, and the yield has been be

ter. They refuse to accept any mill over 75 degrees. We have factories on our list which it takes 13½ lbs. of milk

which it takes 13% lbs. of milk make a pound of cheese, during the hot weather. That such a quant of milk is required, is taken i granted. Those patrons are alwa delighted when the price of che goes up one cent. They could a that cent easily here the price of the giving their stick properties. Eare...-E tract from an address. Eare...-E

inhis Jackets for Milk Cans

HOLSTEIN-FRI

June 24, 1915

Farm and Dairy exponent of dairy The great majority of the Ganadian H Association are paper. Members of paper. Members of are invited to send st to Holstein bry lication in this col

The Breed that

R. Fentherstone, Ci LIKE the Holstein-I No other breed co To fill the pail bot ad make a test to b And m

hundred pounder? You will hear some ch Who keeps a few tong In barnyards, or in fi

Not a single month d That does not carry of A bigger record made From cows like that a

H's true my friend, ; A Hoistein's winner a Not for her beef but And a test from which and when their day for A chunk of beef in m Not so, my friend, in So have a Holstein if

se now I think I hav of that great breed th let Ayrshires, Guernse To win the place mon

19 win out press into a period in the Richard Source of the Ric

Muter. 14-day record, 7y. 1m. 14-day record, 7y. 1m. 14-day loss of the state of

The slipshod farms and has all kinds of the doesn't keep straight, but sticks of site. You say, take a brace, and blam.t old place, with moisen tools, latest rules? Why s focks and herds? coin to pelt the bit He answers throug

Two Fa

THE Dairy Division of the Unit States Department of Agriculto has just completed a series of te in cans during transportation from the we can be during transportation from is farm to the consumer. These tends established the importance of jacke, inσ cans of milk with some appro-priate insulating material. It has been found that milk that has to be sent only short distances of preserved for only a few hours should preserved for only a few hours should preserved for only a few hours should be approximately of the state.

preserved for only a few hours shou maintain a temperature of less that 50 degrees. Even at these tempen tures, some bacteria will multiply as cause Lie souring of the milk, but the increase is slow and during a fet hours no serious results will occur A temperature well below 50 degree Techensheit boweger. materially & Fahrenheit, however, materially of creases the rate of bacterial growth

On the other hand, where milk it be shipped long distances, the in tial temperature must be lower, as suming that no provision is made the maintaining the original temperature during transportation. Where mike maintaining the original temperate during transportation. Where milt a cessary to cool it down to near b freezing point. So soon as the mil can, however, is exposed to air ten-perature, and especially to the su-the temperature of the milk begins up the temperature of the milk begins up the temperature of the milk begins up to the superstance areas prerise very rapidly and every precaution should be taken to keep it from bein raised by the outside heat.

A series of experiments was re ly made in shipping milk cooled i 50 degrees. In these cases the ca were set in an open truck, with a covering to shield them from the a rect rays of the sun. The milk wa were set in all did them from the orect rays of the sun. The milk us hauled a digrance of 13 miles and the sun set of the sun. The milk us hauled a digrance of 13 miles and the surface set of the set of the surface set of the surface set of the 281/2 degrees.

It is obvious from these figu that it pays to jacket the cans, order to maintain a low temperat during transportation

There are some places where it buttermaker could not ave best mould due to poor refrigerators, and it is time that the old style mou boxes were replaced with refrigerate of up-to-date construction. It mu be considered poor business for creamery to spend good money the best equipment, also make a sp cial effort to get good raw matein and then store the butter in a plat where it is almost sure to deteriora —James Sorensen, in The Dairy is cord

coin to pelt the bin He answers throus lid: "I do the way I have no use for a agriculture learn'd farmers' journals d no time to sit ams much trouble on m and talk here 'til cows are all produ hens have never les hoss are troubled hogs are troubled w may have traverus, we use of the butter and so the butter the well is dry, the dry, the the well is dry, the dry, the the set of the set of the set of the max set of the set of the set of the the set of the set of the set of the dry of the set of the set of the the set of th

24, 1915

to grow our special pro-he milk and eather, it is et the best

s in Easten ished a tem ill be accept They neve

heese as they temperature has been bet ept any mill

R. Fentherstone, Carleton Co., Ont. Like the Holstein-Friesian cow, No other breed could show me how To fill the pail both night and mor And make a test to blow one's horn. our list of milk during th h a quanti A hundred pounder? "Oh my, my!" for will hear some cheap-guy farmer cry, who keeps a few tough, wee, red cows in barnyards, or in fixed up mows. s taken fo s are alway chees ce of Not a single month does there go past, That does not earry on its path A bigger record made at last, From cows like that great Pontiac Lass er care.—Er

k Cans

of the United of Agricults a series of tes rature of mi ation from the These test nce of jacke some appro

al. milk that ha distances or hours show of less the

hese temper I multiply an milk, but th during a fer ts will occur ow 50 degree materially rial growth. where milk i ances, the in be lower, a al temperatur Where milk ours, it is to n to near the n as the mill ed to air teny to the sui milk begins a

ery precaution it from being neat. nts was recent milk cooled a cases the can truck, with a n from the d The milk wa miles and the re during the The expen wed a raise hree hours is e milk. The with wet buy temperature (ame period, a The milk i

rose in thre , or a rise s these figure t the cans, it

aces where the uld not aw rigerators, a ld style mou tion. It must ood money so make a sp d raw materi tter in a pla to deteriorate The Dairy R June 24, 1915

HOLSTEIN-FRIESIAN NEWS

Form and Dairy is the leading exponent of dairying in Onnada. The great majority of the members of the Oanadan Holstein - Friesian Association are randers of the paper. Members of the Association are invited to small tens of inte-rior in the second tens of the interiment of the second tens of the paper. Members of the Association are invited to small tens of inte-tion of the second tens of the interiment of the second tens of the paper.

The Breed that I Like Best

It's true my friend, yet every year A Holstein's winner at the Fair, Not for her beef but for her milk, ad a test from which she did not shirk.

so now I think I have said enough of that great breed that gives the stuff. Let Ayrshires, Guernseys, Shorthorns try To win the place money can't buy.

<text><text><text><text>

Two Farmers

ante.

and when their day for milk is pa A chunk of beef in most cases has Not so, my friend, in every breed, so have a Holstein if you need.

milk 56.97 lbs. fat, 71.22 lbs. butter. D. B. Tracy, Cobourg. 5. Jetake Artis Hengerveld, 24135, 67. 1m. 25d.; 464.8 lbs. milk, 20.66 lbs. fat, 25.66 lbs.

64.; 2026 (Bu mus, we see the batter, 34-day record, 5y, 3m. 6d.; 4,400- we multi, 542 Bits, 543 Bits, 543 Bits, 544 Bits,

Margia & Strong K. 1998.
 Margia Berron, 1976. 67, Im. 8d.:
 Margia Berron, 1976. 76, Im. 8d.:
 Margia K. Ade Bas, R. 1, Margia Berron, 1976.
 McCalpin, Ganazogue.
 Senior Feur-Yaer Class
 Senior Feur-Yaer Class
 McLade M. 2024 lbs. fat. 25.3 lbs.

Cossie De Kol Hengerveld, 1647, 47, 11m 264, 574 1bs. milk, 2034 1bs. fat, 353.
 Burtter Mill, 6318 Hen, fat, 185. 2014 1bs. fat, 353. 2014 mill, 6318 Hen, fat, 185. 2014 1bs. fat, 353. 2014 Stewart, Lora. Junior Four-Year Class
 Princess Galamity Wayne De Kol 2nd, 1796; 4y. 3m. 4d., 5901 Hs. milk, 1362 Hs. fat, 253. 1bs. butter. T. G. Gregg, Inger-201
 Lavras Da Kol of Periories 1995 44.

soil arra Dutter. T. G. Orege, Ingra-fond, Laura De Koi et Paireise, 1985, 45-66, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, Des butter, P. J. McCalpin, 1997, 1997, 1997, 1997, Senter, Three-Year Crass J. Millie De Koi of Paireise, "1998, 43-ibe, butter, 1997, 2007, 45, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 2007, 199

day record, 3y. 10m. 26d.; 2,359 lbs. k 82.13 lbs. fat, 102.67 lbs. butter. F. J. milk 82.13 McCalpin.

McOalpin. 2 Countees De Kol Calamity, 19564, 3y, 6m. 9d.; 4763 bbs. milk, 1868 lbs. fat, 21.65 bbs. butter. 14-day record, 3y, 6m. 9d.; 953 lbs. milk, 364 lbs. fat, 3960 lbs. butter. R. M. Hollby, Port Perry. 1. Jaynor Three-Year Class 1. Jaynor

 The nume paraset means, and really of the control of 30.; box butter. 30-diay record. 3y. 2m. 8d.; 2,459.4 lbs. milk, 101.64 lbs. fat, 127.05 lbs. butter. A. hatter. 14-day record, 7y. 1m. 9d; 1.588.5 lbs. milk, 2.40 lbs. fat, 65.01 lbs. butter. W. Freed Kalls. Millbrook. 1. Princess Dixie de Annandale 2nd, 9313, y. 1in. 3d.; 574.5 lbs. milk, 20.87 lbs. fat,

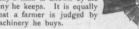
milk, 101.54 [108] Fat, 139.56 [10].
 Hardy, 2 Hill-Creet Pontiac Susie, 22709, 3y. 5m. 16d, 6466 [bs. milk, 942 [bs. fat, 24.28 [bs. butter. G. A. Brethen, Norwood.
 3. Pontiac Atlas Kent, 32664, 5y. 6m. 22d.;
 408.9 [bs. milk, 15.79 [bs. fat, 19.75 [bs. bnt-

8.09 lbs. butter. 20-day record, 7y. 11m. 3d.: 1.611.1 lbs.

5 Gretchen Faforit, 23204, 2y, 0m. 12d.: 338.⁴ lbs. milk, 11.82 lbs. fat, 14.78 lbs. but-

ter. 14 diay record. 2y. 0m. 12d.; 649.6 lbs. milk, 22.26 lbs. fat, 28.09 lbs. butter. Jacob Leuseigr. 6. Retta Maida Korndyke, 25953, 2y. 2m. 9d.; 352.6 lbs. milk, 11.72 lbs. fat, 14.66 lbs.

30-day record, 2y. 2m. 9d.: 690.5 lbs. milk. (Continued on page 19)



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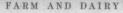
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hiller Bve ds Zenoleum almost It cures mange, lice, sores, internal and ns, and parasites. A netant for barns, pens espest in price and nicidal power. The s in the hands of the Why waste mong home-made, hit-and ith home-n



ZENNER DISINFECTANT CO.





They say a man is known by the company he keeps. It is equally true that a farmer is judged by the machinery he buys.

FARM AND DAIRY

MARKET REVIEW AND FORECAST

The properties of the set of the

WHEAT

WH&T The weather all over the wheat growing areas of America and in India, has been coordinatify frownable to the second second transfer for the second second second second areas and the second second second second and the second sec

COARSE GRAINS A quiet trade has been done. The greatest difficulty confronting exporters is not to get bids on their arins, but to the docean room for Albumit, and corn is up a cent or two. Oats. C.W. No. 5, 66 to 80; No. 3, 57 et o 80; Andram corn, 80; to 80%; Osmalian ting, Yoe to Pan Red. 66; 1778, 8160; to 8109; huds wheat, 156 to 776. On the Montreal market goetalions rule as follows: 0.84, 6W No. 5, 85% et al. 78, 8100; 6129; huds white, 80 to 10%; Data data data data data white, 80; to 10%; Data data data data data Edd SAN POULTRY The storage season is over and 482; Pa-COARSE GRAINS

faced barley, 72%. Holds AND DOULTEY The storage states will be taken ease of by the yetail trade. Records have de-house the state trade. The states are of by the yetail trade. The states are of the yetail trade to the trade here are follows: Eggs in actions due to dis-to the yetail Monthal and scheded stored the to dis. A list trade will be the states here are follows: Eggs in actions due to dis-to the the states are at the scheded stored the to dis. A list trade are desched stored the to dis. A list the state desched stored the to dis at the dist the scheder stored the to dis the state desched stored the to dist the state of the states for to the store are stored by the store of the the to dist the to dist due to dist the to dist the to dist the to dist due to de due the to dist the to dist the to dist due to due to dist the to dist the to dist due to due the due to dist the to dist the to dist due to due the dist the to dist the to dist due to due the due to due the due the to dist the to dist due to due the due to due the due the to dist due to due the due to due the due to due the due the to dist the due to due to due the due to due the due to due to due the due to due the due to due to due the due to due to due to due to

turkeys, dressed, 350 to 35c, ducks, 77c to 15c HIDES AND WOOL The market is advancing. Effort, correct, 15d to 17c, part corred, 156/ce to 175/c part correct, 157/c to 156/ce decours. 756 to 581 each horne bides, 78c, 3, 8375 to 8,835 No. 4, 825 to 158 cosh; biscpeditas, 75c to 84 Walket was advanted and the state of the state 15d to 25c the 35c of the state of the state 15d to 25c the 35c of the state of the state 15d to 25c the 35c of the state of the state 15d to 25c the 35c of the state of the state 15d to 25c the 35c of the state of the state 15d to 25c the 35c of the state of the state 15d to 25c the 35c of th

World's Record for Butter-fat Production Broken I am much pleated to be able 'o announce that the Bolata Fried producing finderms Fried Johanna Ru, 1784, has broken all the Presds, by producing the state of the State State State State State State State State State for not early Bolatabro Takay has de milk containing 1.7847 has of butter to the freedown of the State I for the State Stat

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Btirling, Ont., June 15.-700 box

boxes sold at

B 3-16c. Campbellford, June 15.--800 boxes white sold at 15%c. Peterboro, June 16.--8,281 cheese sold at

June 24, 1915

eold as 15% and halance as 15 1/16. Trobles, Jaw 13.-500, these boards, trobles, Jaw 13.-500, these boards, ing data has year 190 cheese work bard-ed, the price boing 13%. All colored: 2.664 solid as 15% and the balance at 2.66 For the same work has year 2.61 work barded, solling at 12% to Exemption.

12.13-16. Kemptrille, June 12..-310 white and ig colored cheese boarded. 390 white and su colored relations boarded. 390 white and su colored relating at 35%. Listowel, June 10..-306 cheeses, consist-ing of 10 colored and 2409 white. Biolog on the hourd read 2409 white. Biolog on the hourd read 2409 white. Biolog at the hourd read 2409 white. So at 15%.

SEMI-OFFICIAL RECORDS OF HOLSTEIN. FRIESIAN COWS FROM APR. 16 TO MAY 31, 1915

Mature Class

June 24, 19

OUR FAR

2000000000000 PRINCE ED

PRINCE ED PRINCE RIOHAOND, Jur the wettest season juing sections there sown yet, which we indexto a prosper farmers are doing operative eqg sell june 6, 9,147 onese jornt we eqg sell june 6, 9,147 onese perative eqg sell j

RICHMON DANVILLE, June shed. A great de nown, but the cool as made the great at few days

own, but the cool has made the grow hat few days the ri and everything is cheece and butter f at this time. The cheece prices. Butte seems to be plentift -M. D. B.

ONT

Corres

dens and corn crops have had to be resov ks.-H. S. T. WATERLOO WATERLOO, June WATERLOO, June been broken and we showers of rain late spudding thisfles,

spudding thisties, outivating polatoes, cultivating golds. Turnips will Thinning sugar beet mangolds will follow ley are coming along promising. Fat can moved out, although still held in the stat feders have proved Builter is very plenti feders have proved Butter is very plenti ib. The Junior Fan-this riding held a Elora on June 2rd.--(OXFORD

NORWICH, June 1 late have made a gr string sown orops, wi inc. The extreme d spring with late hand injured the hay crop, the average. Wheat, it to \$25: shorts, \$3 be; hay, \$12; live ho

A CANADIAN RI E DITOR, Farm and gerveld Pietje, o has had another daughter freahen to n ord of 27.49. This h CANADIAN RI

cord of 27.49. This h junior record for Om well, including that of Posch. This heifer co Korndyke family, bei Belle De Kol Korndyl two-year-old. This gives Prince He twend thisd and de

This gives Prince He second, third and fon two-year-olds and with with 331.76, 22.36 and 3 sab records as 25 an olds, places him beyo of the great bulls. continuing her record inst. 100 days from ca. of milk.-A. C. Hartly,

A GREAT RECORD IN a recent letter to Mr. G. A. Brethen, 1 us of the great re Rauwerd is making

"Rauwerd has compli-conths of her semi-offi-ver 21,500 lbs. of milk, PURE BREI

AYRSHIR

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explains in simple language, the anstony of the sexual organs, anti-during operators, and organs, and performer limit of the second performer limit of the second second performer limit of the second second of the set of modes, and the second second second second second second on the second second second second on the second second

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FARM AND DAIRY PETERBORO, ONT.

DAIRY PRODUCE The heavy make of cheese has been the biggest factor in knocking prices re-cently. There is a disposition in the trade

World's Record for Butter-fat Production Broken

reliable berrea were offered. Trade starts of out with a good aring trade is the second area of the second aring trade is the second area of the s

1915

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some boarded, %c and the ac week last ag at 12%c to

hite and 542 white and 390 eese, consist-hite. Bidding

on the street F HOLSTEIN. PR. 16 TO

h. 9165, 67.; 83.75 Ibs. but.

12799, 6y.; 61.25 Ibs. but. Ibs. milk, 400 H. Thomson, 79. 6y.: 13,781 6 lbs. butter.

66, 6y.; 11,146 e. butter. A h Farm, 8564, fat, 508.75 lbs, Tavan.

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esian cow at produc-producing of butter Her sire She was d by The was made d for the bployed in t Finderne with every or then in with every or then in 39 Ibs. fat. the produc-uction she in not less seven days a her best seen of all

101, 6y.: 11.23 bs. butter. Dir iz, B.C. 2539, 4y. 864. 591.25 lbs. bet-

301d.; 14.419 Da 44756, 4y. 384. 467.50 lbs. bs. sterville. 343d.; 14,753 lb. 56. butter. Ros

1, 18757, 3y. 601 553.75 1bs. bu-

te 2nd, 1708, k. bs. fat, 600 hs. Port Eohinson rveld, 15404, §. Ibs. fat, 500 hs. stock.

3y. 348d.; 11,41 77.50 1bs. butter 18936, 2y. 1754 t. 607.50 lbs. bs

rania, 2'981. 18 bs. fat, 486.35 IM

19578. 1y. 344 t, 463.75 lbs. be m Farm, Strail

16894, 2y. 334 t, 451.25 lbs. hi Dkotoks, Alta s Kol. 21431 5 bs. fat, 447.5 h Welland, 20163, 3r. 54 k, 645 lbs. butte

ine 3rd, 18365 1 bs. fat, 34616 1

Posch. 2397. 1 Ibs. fat. 335 Campbellford hoice, 21,759. Ibs. fat. 335

June 24, 1915

OUR FARMERS' CLUB Correspondence Invited PRINCE PRINCE PRINCE EDWARD ISLAND

PRINCE EDWARD ISLAND PRINCE CO, P.E. 1 TURIGNO, June 16-WG are having the vector season on record. In low we are the season of t

Operation.-J. D. Mod. The operation of t

ONTARIO

And the probability of the second second

38. hay, 612, Hwa hogs, 64.80–4. Mok. A CANADIAN RECORD BOOLEN. A CANADIAN RECORD BOOLEN. The had another junice two-year-oil angine reacher years and the famous Alta bool and the second second second second the second seco

A GREAT RECORD IN THE MAKING N a recent letter to Farm and Dairy, Mr. G. A. Brethen, Norwood, Ont, tells as of the great record that his cow Rauwerd is making under semi-official

Bauwerd has completed the first eight onths of her semi-official work with well er 21,500 lbs. of milk," writes Mr. Breth-

AYRSHIRES FOR SALE Choice Hulls of breeding age, out of ws. Also a few Females. R.R. No. 5 - SEAFORTH, ONT. FARM AND DAIRY

ett. "An anount equaled by possibly saily one other oow in the world." He is attll militar & Dounds at y and remaining the point of the sail of the

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM MTY 16 TO MAY 31, 1915

(Continued from page 17.) 23.15 lbs. fat, 22.96 lbs. butter. J W. Stowart, 7. Duchess Johanna Walker, 23.54, 27. im. 10d, 30.64 lbs. milk, 11.0 lbs. fat, 13.30 lbs. butter. P. J. Salley, Lachine Rapids. Oue.

Gue. E. Grace Colanths Wayne, 2007, 17, 10m. 22d.; 319 Dz. milk, 1046 ibs fat.; 131 Dz. butter. David Caughol, Bt. Thomas. F. Notle Winsumer, 3945, 17, 11m. 35d.; 417 lbs. milk, 1068 Dz. stat.; 1326 Dis. butter. to 200 Distribution Distant, 2205, 27, 30m. 324, 3244 Hose Dublish, 2205, 27, 30m. 324, 3244 Hose Dublish, 2205, 27, 30m. 324, 3244 Hose Dublish, 2205 Dist. 10m. 324, 3244 Hose Dublish, 3205 Dist. 10m. 324, 3244 Hose Dublish, 3250 Dist. 10m. 3244 Hose Dublish, 32

AYRSHIRE BREEDERS' MEETING

Bottler. David Caughal.
Avenue Research Counties Archive Merriton Counties Archive Merriton Counties Archive Merriton and Counties Archive Merriton and Counties Archive Merriton and Counties Archive Merriton Counties and Merriton Co

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The day's outing PAT Store in the interval of the transformer of the



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FOR SALE 10 or 12 Holstein Cows and Heifers. **'AVONDALE FARM BULLS** AUTIMUALL TAININ DULLO Our sals nearly cleaned us out of young bulls. We have one grand in-dividual from 75.651b. Cover, 4yr.-old, nearly two years. A barginin for a We have a dozen from four to an months, from cover up to 39 bb. We make special offering of four at smonths off, sired by, WODDCREST We make special offering of four at the special offering of the special term of the special offering of the spec-tra offering of the special spec F. C. PRETTY, WILKESPORT, Ont. LAKEVIEW STOCK FARMS, BRONTE Breeders of High Class Holsteins, offer for sale some Choice Young Stock of both sex. E. F. OSLER, Prep. T. A. DAWSON, Mgr. FOR SALE Holstein Bull, born Apr. Ind. 1914. Bire's dam, 25.18 bs. butter 7 days, 950 Bas milk 1 days, 25,60 bs. milk 1 year. Dam, E.18 bs. butter 7 days, 16.767 bs. Dam, E.19 bs. butter 7 days, 16.767 bs. He is mostly wilks in cost prios, 8100 S. LEMON LYNDEN, ONT. occur again. Address TTOS H. LYNN Avondale Farm, R.R. No. 3, Bro ockville. Om HET LOO FARMS VAUDREUIL, QUE. HOLSTEINS Lat us quote you prices on Heifer Calves from \$ to 6 months old, also high, bred good in-dividual Ball Calves. Dams with records from \$8 |bs, to \$0 |bs, in 7 days. Wo are short of

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These are guaranteed to be good, strong-boned, typey calves, well marked with clearly defined colors and of the very best breeding.

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June 24, 1915