Address communications to Agronomist, 73 Adelaide St. West, Toronto

A Breeder's Problem.

There are many who do not believe very strongly in a careful, scientific breeding. There are many scrub cows that are enormous producers, both in quality and quantity, of milk. Then there are many pure-bred cows that are poor producers. A case has come to our notice of a pure-bred cow which produced, about twelve thousand pounds of milk in a year, mated with a sire whose dam produced eleven as the control of the control of

rinciple is frequently shown, not only the breeding of cattle, but in the breeding of all other animals. In such cases the sire and dam that bred back that the fault was not exclusively in either, but in the combination of blood. The intelligent breeder will see to it that such offspring is sent to the

The experienced breeder can usually see before the calf is two weeks old whether it will be suited to dairy purposes. The dairy animal will have a neck. There is a peculiar soft in the skin of a good dairy ani mal that all experienced animal breed

ers will quickly notice.

It is a fact that a great deal de pends on the way calves are brough up. The best heifer calf may easily be spoiled by being fed fattening food, or by semi-starvation before it is a year old. Both of such procedures are injurious to the calf's digestion. If this is ruined in calfhood, the cow will be a poor eater, and therefore a poor producer, no matter what the sire and

dam may have been.

It would also seem to go without saying that a great deal also depends on the way the mature animal is fed. Fine blooded animals require the best of care and treatment if they are to do their best. If the owner is not able or prepared to give his cows the re-quired treatment, or is too negligent to do so, his fine-blooded cows are cerdured treatment, or is too negligent only half as much pasture land as to do so, his fine-blooded cows are certain to sink to a level with, if not some land our cows have milked and served cold is a titbit high in there is no reason why you should not below, that of the scrub cows. And so as they never did before. A piece of favor. So, too, with heart and liver below, that of the scrub cows. And to it often occurs that the best bred ani-mals are often branded as cheats, only because their owner did not properly

How Our Silo Has Paid for Itself.

a century, they are certainly beyond

land for raising silage crops will produce five or six times as much feed as will a pasture of equal size.

Every farmer having 10 cows or frying liver, I slice it thinly, season, more needs a silo. Without one it is How Our Silo Has Paid for Itself.

A good silo will stand as long as any brown, and turning when one side is other building. We built ours seven browned. It's then no longer beef

many farmers are still without silos, years ago, and it is still in good con-liver.

The heart I stew until tender, then bake with a dressing made of bread crumbs, seasoned as for chicken and made rich with butter. dish fit for a king.

The tail goes into "ox-tail" soup.

Many a dark and gloomy stable could be made cheerful and far more healthful to the cows and their caretakers by the expenditure of a very few dollars invested in a number of generous-sized windows suitably placed. Germs causing practically all of the dangerous diseases thrive in the

THE CHEERFUL CHERUB

cold has made me

lose my voice.
This really is a boon

'm in the limelight

to me

now at last

And how I

love the sympathy. Ry (Ann

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By John B. Huber, AMMD

Address communications to 73 Adelaide St. West, Toronto , all, the five of you, boys and colleen

"In our family of five there are three boys and two girls. All of us are fine and strapping and have the color of apples in our cheeks. But here is the problem. My father, born in Ireland, was a fine, strong man who came over here the picture of health. When we all grew up to from 11 to 18 he contracted a cold resulting in his here. The year of the last year or two and is extremely here we have the was injured on the back of the head by the instruments used by the deter. To you think this injury prounds of milk in a year, mated with a sire whose dam produced eleven thousand pounds in a year, and the result was a daughter which was capitable of producing less than six thousand pounds of milk in a year. It is because of occurrences like this some dairy farmers look with some some dairy farmers look with some supplicion on scientific breeding of dairy cows.

The principle of atavism, which is breeding back to some primitive type; is well shown in such cases. This is well shown in such cases. This is well shown in such cases. This is well shown in such cases.

The principle of atavism, which is some dairy farmers look with some than it was to provide feed for them than it was to provide feed for the doom all of us? He was very careful and since he died, three years ago, we are nervous. None of us so far as the child is remarkably bright, perfectly berhood a plan for providing a generous and comparatively inexpensive mate which doom all of us? He was very careful and since he died, three years ago, we are nervous. None of us so far as the child is remarkably bright, perfectly berhond a plan for providing a generous and comparatively ine When we all grew up to from 11 to 18 he contracted a cold resulting in his death from consumption. Does that doom all of us? He was very careful and since be died, three years ago, we are nervous. None of us so far as I know, ever had a cold; but does the first sign of a cold doom us to that

than butter coming from cows not fed slage.

Comparing figures with one of our neighbors who has no silo, we find that each of our cows cost us, per year, \$13 less to feed than his. We are also able to produce beef \$2 cheaper per 100 pounds than he can. Figuring at this rate, we came to the conclusion that our silo earned, last year, at least \$265. Moreover, we saved much grain feed by giving the colts silage, voung beef and one or more veals and stages.

The same of the product of the product and prepared those who waste too much of what to the product the packer is valuable by-product—namely, blood, entrails, feet, head, and horns.

Let me tell you how we manage. Our poultry and pork are home-grown, salled and prepared.

For our beef, mutton, and veal we aim to co-operate with at least three neighbors, and each one of this group of four families butchers one small grain feed by giving the colts silage, voung beef and one or more veals and the disease (that is, a weakness of the disease least \$265. Moreover, we saved much crain feed by giving the colts silage, and also the horses, when not working. Indeed, I believe that our silo has saved enough to build a new one each year for the last four or five years.

Sometimes when the corn crop has been short we have made good silage from millest elevate asts on year.

Moreover, we saved much craim feed by giving the colts silage, for such that our silo has saved enough to build a new one each year for the last four or five years.

Sometimes when the corn crop has been short we have made good silage from milles tolvare asts or year.

I am sorry to say that one of the races which are prone to such tendency to the disease (that is, a weakness of the body by which it may become fruitful soil for the implantation and the growth of the weed-like germ) may be transmitted.

I am sorry to say that one of the races which are prone to such tendency to the disease (that is, a weakness of the disease (that is, a weakness of the disease (that is, a weakness of the body by which it may become fruitful soil for the implantation and the growth of the weed-like germ) may be the disease (that is, a weakness of the disease

Sometimes when the corn crop has been short we have made good silage from millet, clovef, oats, or rye. We have fed this with success even in winter, but mostly we feed it during the latter part of summer, after the corn silage is fed out. In fall, again, we fill the silo with corn, and if this is not enough we refill it later with constalks taken from shocks in the field. The stalks, if soaked with water, can easily be cut, and make good silage.

We always try to have a supply of silage for summer. The cattle need a cool, succulent feed during hot weather, and what is better than corn tilage? Some summers, also, the pasture lands do not pay. Since we began teeding silage in summer, we have had only half as much pasture land as formerly, and our cows have milked?

can be speedily cured by yourself right in your own stable by treating

DR. A. C. DANIEL'S COLIC DROPS

HORSE COLIC



Colic is often fatal, but if you give your collicky horse Dr. A. C. Danlet's Colic Drops in time, you will save its life and restore it to condition. With a bottle of this famous remedy you can avoid sending miles away you can avoid sending a value but the property of the property o

Choose the best Fertilizer!

A Country Church That "Came Back."

In Platte County, Missouri, lives a farmer who has worked all his life with the idea of retiring in his oldage and buying a home in Kansas City. He has reached the point at which this ambition may be easily realized but for one obstacle—his young son and daughter firmly and vigorously refuse to give their consent!

They refuse because—what do you think?—they are afraid the city would be dull! They are very sure, at any rate, that it wouldn't give them the satisfying social life they enjoy in.

their home neighborhood.

Their mother is partly responsible for the attitude of the children who won't let Dad leave the country. She was one of seventeen mothers who met one day to make plans for building a social centre annex to Second Creek Church near Ferrelview, the oldest country church in the county. The seventeen had observed the waning influence and the gradual abandon ment of many rural churches, and especially their failure to touch the lives of the growing boys and girls. They decided that Second Creek Church should not succumb to creep-ing paralysis, but should "come back"

to the position of vitality and helpful-ness it held in pioneer times. Plans were made for a social centre annex to the church, consisting of an up-to-date kitchen and a community dining-room and auditorium. Modern plumbing was to be installed, with avatories, drinking fountains, and inside toilets. A hot-air furnace was to replace the stoves.

These improvements would cost \$1,-

000. The figures was low because the farmers in the neighborhood had offered to contribute labor and materials. Nevertheless, the raising of \$1,000 was a task not to be lightly ac-complished by a handful of busy coun-try women in these days of scarcity of help.

of help.
"It will take a long time to raise \$1,000," suggested one of the workers.
"Our children would grow up in the time it would take for that money to trickle in from socials and bazaars. I move that we look on this as a business proposition and go at it just as men would. Who ever heard of men waiting for public improvements until they had raised the money by pie suppers? I propose that we borrow \$1,000 at the bank and give our per-

sonal notes for it.

"If we get in debt we'll have to get out. Our good names will be at stake, and we'll work like beavers to make up the payments. If we get a loan we can start building right away. We can have our improvements and be getting the good of them while we're paying.'

paying."
Everybody gasped. But the more the proposal was threshed over the more sensible it seemed. The neighborhood needed social enlivening at

The women adjourned to put the proposal to the president of a bank in the nearest village. They got the loan. That was in 1917. The annex, com-pleted in a few weeks, was equipped with a kitchen containing a gas stove, a cooking range, hot and cold running water, and every convenience for pre-paring and serving meals. The large dining hall is also used for a Sunday chool room, and as an auditorium for ectures, farmers' meetings, concerts, amateur theatricals, community din-

ners, and Christmas trees. "The big thing about modernizing a country church is making up your mind to do it," said Mrs. Joe Couch of Westdall, Missouri, who is a leader in the social activities of the enlarged church. "Once you've decided to go ahead you'll get all kinds of co-opera tion. We couldn't have improved our church but for the help of our hus-

nds, brothers, fathers, and "They contributed teams, labor, and material to the value of several hun-dred dollars. People who had never taken much interest in the church added their bit. The building of the annex stimulated the spirit of co-op-eration and teamwork, not only in the church but throughout the neighbor-hood. I think any band of church women could do what we did."

The annex has more than fulfilled expectations in supplying the community with social life. To the dinners given in the new dining hall, people ome from a radius of twenty miles. team, and on foot. The young husband and wife who have just moved into the neighborhood shake hands with scores of new friends. Lifelong friends meet and talk across the table. The young people sit around in con-

enial groups.

The Ladies' Aid has met payments on the loan easily. The women got out a cookbook which they sold through-out the country to raise money. They out the country to raise money. Incy have had entertainments, bazaars, and sales of food, garments, and fancy needlework. One day of each month they meet at the church to sew on gairments which are sold for the church fund. Meanwhile there is "something doing".—some social or educational

fund. Meanwhile there is "something doing"—some social or educational gathering—at the annex every week.

And that is why the boy and girl in the home of at least one farmer in Platte County, Missouri, are growing up happily and wholesomely on the farm and not in the after. farm, and not in the city.

Time and tide wait for no man, but time and care applied to farm tasks pay any man,

"Lord make it fit-The work of our hands, that so we

Lift up our eyes and dare to pray, work of our hands-establish Thou it."

Potatoes

at 36 cents per bushel

THE cost items of Mr. Jos. Loughlin's potatoes, Dundas Co., totalled \$85.50 per acre, including \$18.00 for fertilis

Fertilized Potatoes yielded 285 Unfertilized Potatoes yielded 80

bus, per acre. At his rate of gain, what would

YOUR potatoes have yielded? Did you use Fertilizers?

He Did Write for our free Potato Bulletin

Soil and Crop Improvement Bureau Of the Canadian Fertilizer Ags'n 11:1 Temple Bldg., Toronto, Ont.

generous-sized windows suitably placed. Germs causing practically all of the dangerous diseases thrive in the dark, and direct sunlight is an effective germicide. Not only is sunlight health insurance for stock, but the cheer, comfort, and contentment that sunlight affords counts profitably in milk and meat production when the animals must spend the major part of every day indoors.

The same window opening properly screened in warm weather affords free circulation of air, while barring out flies. The objection sometimes raised against large windows as a means of losing much warmth by radiation at night can be readily met by using inside hinged wooden shutters, or spring-roller building-paper shades.

"Lord make it fit—

"Lord make it fit—

"The work of our hands, that so we seem counts are not used the pullets. The objection sometimes raised against large windows as a means of losing much warmth by radiation at night can be readily met by using inside hinged wooden shutters, or spring-roller building-paper shades.

"Lord make it fit—

"Lord make it fit—

"The work of our hands, that so we stand the may be only lite and the again that alerd compound shortening, and the alerd compound shortening, and the pollets that lay first will probable the best breeders in the spring and it may be only lite and the early will probable that all are keeping down the egg yield.

The pullets that lay first will probable the spring and it may be only lite and the valied by the publets which play to band such birds and use them exclusively in the spring and it may be only lite and the verified by flow the spring and it may be only lite and direct sunlight and direct sunlight that a lard compound shortening, and the pollets will probable the publets that lay first will pay to band such bards use them exclusively in the spring and it may be object.

The dark release to of

Smothering Out Quack Grass ness in your neighbor's trouble, cour On My Farm.

It seems to me I have never seen the treatment for quack grass which I have been practicing for some time with gratifying results, mentioned in any farm paper. I do not use the spring-tooth, and have observed that the farmers who do use it have plenty of week grass.

f quack grass.
For several years I have been following the practice of always going the same way over the quack with wheel or disk harrow, smoothing har-row, or cultivator where there is row, or cultivator where there is quack. Go the same way in the row when cultivating every time. The idea is to keep crowding it under and covering it. If one goes the opposite way in the row alternately, it just puts the quack in good growing condition.

I prefer the disks to be dull, so as to not cut the roots when disking be-

not cut the roots when disking, be-cause the more you cut the roots the more quack you have. Sometimes quack is hard to pull, and at other times it pulls easily. One should watch and take advantage of it when-

Ivory-backed or ebony brushes can be quickly cleaned by rubbing dry bran into them and shaking them well to remove the grain afterwards. Lots of people dislike using water and ammonia, because they believe it injures the backs of the brushes.



Instead of pricing the next fertilizer you buy—investigate first the quality. For it is quality, not mere bulk, that gets results. The time to ask the price is when you have made sure of could be a sure of course of

when you have made sure of quality.



EASING UP

The earth has delivered her bounty—provided for her own. Contented, she sleeps the winter months. And the men who worked with her, who toiled in her furrows and delivered the harvest—they, too, have earned a rest. Thoughts may turn to hospitality and social evenings. The

plays its part in the warm-hearted social life of the country and in the more formal functions of the city. Wherever a particularly clean shave is demanded Gillette service is commissioned.

Gillette Service means shaving comfort, No Stropping-No Honing, the elimination of the unnecessary, the saving of time. \$5.00 at dealers everywhere.



The Gillette Safety Razor makes a very acceptable and serviceable Christmas gift. You get the full, pre-war value for every dollar you spend on it.