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The "Simplex" of To-day

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For year perfenced dairyana knows that the larger the Hand

separator has can operate, even if he has but a few cows, the more

The most striking feature of the new "SIMPLEX" is its light

running. The 1.16b-h. size, when at speed and skinming milt, taken no

more power than the ordinary she milk more than in two, not only

because it turns easier than most other Hand Separators, regardless

of capacity, but because it does the work in half the time, and in

direct saving in money to the dairyman.

Mote the heavy, compact construction and convenient his only

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D. Derbyshire Co., Ltd.

Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

Farm Improvement Number

MAY 6th

RESERVATIONS ARE NOW IN ORDER

SYDNEY BASIC SLAG-

Our entire output of this Fertilizer for Spring, 1915, has now been sold and we cannot arrange further agencies unless for Fall delivery. Where we have no local agent we will supply farmers who wish to get an experience of Basic Slag this season with ton lots for \$20.00, delivered free at any Ontario station, cash with order.

Descriptive literature and all jurther particulars on application to

THE CROSS FERTILIZER CO., LIMITED SYDNEY, NVA SCOTIA

Dairy Farming in Western Canada

in the three prairie provinces. This is so not only in the districts surbut in country places where they must be able to manufacture the product of their milk or cream them-In these centres the milk is taken to a cheese factory, either taken to a cheese factory, separated at home and butter made,

or cream taken to a creamery. The dairy industry has been, up to a few years ago, operated lar- ely as a side line. After a day's ork on the land, the farmer has not felt much like milking 10 or 20 cows. The low price of milk a few years ago was not encouraging to the mixed farmer. These conditions have changod, however, and many farmers are recognizing in the dairying industry the most important branch of the farming activity. For many years to come, the dairy farmer will be the man who will make the money.

Knowledge in Power Canadian farmers have made money asing wheat because they under-stood the business of grain growing; and they will make money dairying, because, with the valuable delp given because, with the valuable sielp given by the dairy branches of the Departments of Agri. Jure of the provinces and the demonstration and experimental farms, they will know how to handle their dairy cows and the milk after it has been taken from them. In Wisconsin and other states, in England, Scotland, Holland and Den-England, Scotland, Holland and Den-mark, dairy farmers are making a good living off land ten times higher in price and not half as fertile as the Canadian West, Feed is more expensive, and, with the exception of labor, everything is more expensive, but they are making a good living because they understand the busi-

ness.

The time was when Denmark bought the feed for their dairy cattle in America and shipped it 6,000 or 7,000 miles to feed her dairy herds, and even then, with that expense, sold dairy products on the London market cheaner than the butter from Canada and the United States could be sold; and the dairymen of little Denmark grew rich.

The largest creamery in the world?

Demark grew rich.

The largest creamery in the world is socated in the Missouri Valley, and it was made possible by conditions favorable to the development of the industry. In the rolling prairie states, the rich native grusses and immense fields of alfalfa have been the principal elements in the development of dairying on the western farms. The ease with which green the principal elements in the develop-ment of dairying on the western farms. The ease with which green fodder can be produced to supple-ment the pastures in late summer and fall, and provide for winter feed-ing, makes dairying very easy in western Cannala. Its immense pas-tures, and the Joustands of acres suitable for the provided of the con-suitable of the Journal of the pro-schillistics undreamed of by the most continistic. ptimistic.

Progress to Date
Little has been done so far in winter dairying except by those catering
for city milk supplies. This is the
most profitable time of year to milk
cows, and in some districts enough
is done to keep the institutions that
manufacture the raw product open
the whole year instead of in summer
only. Up to the present time land
has been so cheap, and farmers haz. Progress to Date only. Up to the present time land has been so cheap, and farmers har and their movey so easily, that there has been little need for much work in the winter, but closed settlement and the higher prices obtainable for dairy products will alter these

The influence of dairying on in-

FSTERN Canada is eminently tensafied farming has been a most untable for dairying, and this important fink in the canin of definituatry is rapidly increasing velopment. The Juccess of farmers the three prairie provinces. This in the eastern provinces in bringing is so not only in the districts sur- from their farms the returns and profrom their farms the returns and pro-fits which were waiting for them has been accomplished to a degree of shoroughness by intensified agricul-ture, and dairying has filled the gap between a promise of what the land will provide and a complete fulfill-ment of its possibilities.

The demand for dairy produce is

The demand for dairy produce is increasing faster than the supply, and there is in this industry the greatest opening for profitable, asic and continuous farming for any number of settlers. In aome district, farmers are beginning to realize the possibilities of dairying. The profits accruing from a careful handling of dairy stock may be seen in a few cases which have come under the sertier's notice, one in each prairier.

Success in Alberta
In Southern Alberta a Slav had
been working in the mines. He had
saved \$700, and with his wife mid a
family of small children he moved to family of small children he moved to a farm on the International bound-ary line, for which he paid \$15 an acre. The land was bought on time and the \$700 was put into cows and a few vehicles and implements for the farm. That was nine years ago. To-day that farmer has 29 cows. his receipts for cream at Cardston creamery in 1913 were \$850. In addition to this he sold calves and other live stock amounting to \$1.300, and this is about his yearly turnover from this is about his yearly turnover from his mixed farm. This man has paid for a half section of land, built a comfortable house and outbuildings, paid for machinery and working equipment, and does not owe a dollar in the world. He attributes his sucess to dairying.

Another case is that of a hired man in Saskatchewan. Five years man in Saskatchewan. Five years ago he had nothing but a homestead of 160 acres. Without any help he sold a carload of potatoes this year, shipped the milk from 30 cows, threshed some 70 bushels of oats to the acre from 30 acres, had 15 acres of corn, besides other grain, and sufficient feed for a large stock of cattle, borses, and h.gs. Wonderful Success in Dairying

Wonderful Success in Dsirying
The outstanding example of the
profits in dairying is, however, seen is
the experience of two Belgrians in
Manitoba. With their mother they
landed in Winnipeg withous capital,
and not being able to speak the
English language. They worked
three years as laborers and savel
\$700. They bought a dairyman out
and purchased his 28 cattle for
\$1,000, making the \$700 as first payment, and rented his premises for
\$82 a month.

The first year they paid off their debt of \$900 and purchased five acres of land of their own. The second year they built a modern house and stable to hold the 80 cows. All modimprovements, concrete floors, stanchions, individual water street anachions, to device a value basis stanchions, to refer series were in the street of the stre



Trade increases ti

Vol. XXXIV

Why are the to Purch

HERE is a gmers of Cana the advantages tha them, due to the enmilitary purposes. the number of horse the first of Decemb head. The number erably augmented. that anywhere from 2 ready perished. In cavalry horse in a mated at only four r casualties have been mate has been place Even for such a cor against the Boers, C horses from the Ar losses to horse flesh compared with the I flict. And yet the pressed as a result has not been stimula for military purpose view of the evident n few. Why?

In their annual co United Farmers of passed a resolution t rect, would throw sor resolution read:

"Whereas, the Do cently placed an em United States of hor oses, and has preven ish and French mili making purchases in

Whereas, the effe ing home producers t to depress a branch of pressed already;

"Therefore, be it r respectfully urge the move the restrictions duction be given its

The restrictions ap moved and the subje few days ago in the tion with the agricul member for Humbol mation as to the expe of pure bred sires strongly commended eral hundred thousand questioned the wisdo duction of better hors the same time restri horses once the farm Trade increases the wealth and glory of a country; but its real strength na are to be looked for anions the cultivators of the land .- Lord Chatham.

Vol. XXXIV

FOR THE WEEK ENDING APRIL 15, 1915

Canadian Horses for Military Purposes

Why are they not Wanted in Greater Numbers? Are Agents of Great Britain and France Forbidden to Purchase Horses in Canada? If so, Why? The Subject Discussed in the Dominion House.

THERE is a g-wing feeling among the farmers of Canada that they are not reaping the advantages that should naturally accrue to them, due to the enormous demand for horses for military purposes. A conservative estimate placed the number of horses in active service in Europe the first of December last, at well over 1,000,000 head. The number must since have been considerably augmented. At that date it was estimated that anywhere from 250,000 to 500,000 horses had already perished. In previous wars the life of a cavalry horse in active warfare has been estimated at only four months, but in this war horse casualties have been much heavier, and the estimate has been placed down as low as four weeks. Even for such a comparatively small war as that against the Boers, Great Britain took over 100,000 horses from the American continent; and the losses to horse flesh in that war were as nothing compared with the losses in this world-wide conflict. And yet the horse market in Canada, depressed as a result of present trade conditions, has not been stimulated to any extent by demand for military purposes. In fact, purchases, in view of the evident need, have been comparatively few. Why?

Is This Charge True?

In their annual convention last February, -the United Farmers of Ontario, made charges and passed a resolution that, if its premises are correct, would throw some light on the situation. The resolution read:

"Whereas, the Dominion Government has recently placed an embargo on the export to the United States of horses suitable for military purses, and has prevented purchases from the British and French military war departments from making purchases in Canada;

"Whereas, the effect of this action is restricting home producers to one market, and is tending to depress a branch of agriculture sufficiently depressed already;

"Therefore, be it resolved that this convention respectfully urge the Dozainion government to remove the restrictions in force to the end that production be given its greatest possible stimulus."

The restrictions apparently have not been removed and the subject came up for discussion a few days ago in the Dominion House in connection with the agricultural estimates. Mr. Neely, member for Humboldt, Sask., asked for information as to the expenditures for the distribution of pure bred sires throughout Canada. He strongly commended the policy of spending several hundred thousand dollars in this manner, but questioned the wisdom of encouraging the production of better horses and more horses, and at the same time restricting the market for the horses once the farmer has raised them. He

charged, "that not only had no special assistance been given by the government in securing markets for horses outside of Canada, but on the contrary, buyers of horses for foreign countries had actually been warned off Canadian soil.

British Purchasers in United States "I am told that purchasers for the British government have been requested by those acting in authority for this government, to leave Canadian

Why Are Our Horses Not in Greater Demand ?

Some Questions that Farmers are Asking

ILLIONS of horses are needed for military purposes. And yet compara-tively few have been purchased in a. Why?

Canada. Why?

A few weeks ago the United Farmers of
Ontario charged that representatives of the
house buying departments of the British and
French armies had been warned out of Canada by the Dominion Government and requested that such restrictions was discussed.
Some days ago the questions was discussed. questee that sten research was discussed in the Dominion House. The Government practically admitted that British Luyers were not operating in Canada, due to "special confidential arrangements."

is confidential arrangements.

The arrangements may have been formthe arrangements may have been formindex are been to make the confidence of a broad imperial basis. Their
actual cells a broad imperial basis. Their
actual cells are been to the price of horses below
whate it would be price of horses below
parformed if they asked this question, "(Vpu)
parformed if they asked this question, "group
parformed if they asked this question, "group
activities of their products to any of
the allied powers why should not the farmer
may sell freely of their products to any of
the allied powers why should not the farmer
be permitted to do likewise? These are
points on which the debate in the House does
not throw any light. not throw any light.

soil and confine their purchases of horses to the United States and other countries. They were told to leave the Canadian horse market alone until the Canadian government had secured all the horses they required so that the price should not be advanced. * * * For some reason or other while French and English buyers are plentiful in the United States down as far as Texas, in Canada there is a woeful dearth in the demand for cavalry and arcillery horses. If there is such an embargo placed on purchases from outside, it is up to this government to take that embargo off at once. * * * Surely the stock breeder and farmer are not to be deprived of this opportunity to get a good price for their surplus stock, simply because the Canadian government wishes to mor polise this market for themselves, so that

they may purchase horses cheaper than they otherwise could."

In replying to the charge of Mr. Neely, Sir Robert Borden spoke in part as follows: "The allied powers, in regard to horses, as to which the wastage is enormous, had to look pretty far ahead in the early months of the war, and certain arrangements were made, which I am not free at the moment to disclose to the House, but which I would have no objections to mention to my honorable friend, or to any other honorable gentleman on the other side of the House. * * * Arrangements had to be made, as I understand, between the powers as to where the provision of horses that would be required, could be obtained, and with those arrangements, which were arrived at under a very distinct understanding, we could not very well presume to interfere. * * * arrangements and conditions which have been brought to our attention, are not only of a confidential, but of a very complex character, and I hope my honorable friend will do us the justice of believing that it has been our greatest desire to bring about a condition of affairs under which the farmers of Canada, whether in the East or in the West, will have an opportunity to dispose of their horses at remunerative prices."

British Govt. Agents, But-Mr. Neely was not inclined to take the Premier's reply as satisfactory. "My information," said be, "was that the British Government actually sent their agents to Canada to purchase horses and that the Canadian government wishing to retain the Canadian horses for itself, had requested the British buyers not to pursue the purchase of horses on Canadian soil, until the Canadian government had itself secured, at fair and reasonable prices, a sufficient number with which to equip the Canadian contingent."

Sir Robert Borden replied: "There is no doubt whatever that persons who have been commissioned to purchase a certain number of horses to provide for the needs of the first and second expeditionary forces, wished to be in a position in which they could be absolutely sure of securing a sufficient number of the requisite type, not only to supply the needs of the first contingent, but also to make good the enormous wastage that must necessarily take place as soon as these forces arrived at the front." The Premier went on to state again that there was another reason for the withdrawal of British buyers, which he was willing to communicate to Mr. Neely privately, but not publicly.

The discussion waxed vigorous at times, Mr. Robb of Huntingdon, Que., and Mr. Bennett, of Calgary, Alta., taking part. Mr. McMillan of Glengarry, told of an interview that he had had

(Concluded on page 21)

Planting Time Pointers by Practical Planters

Making the Most of Oats C. L. Johnson, Huron Co., Ont.

HE oat is Ontario's greatest grain crop. We don't hear much of it, however, because as a general rule the grain is fed on the farm. If it were a cash crop, like wheat, it would receive more consideration. As usually grown it serves a double purpose—to yield a supply of grain and straw and also as a nurse crop to the clovers and grasses. On a well run stock farm oats are always seeded to clover and grass, and this modifies seeding practice very considerably.

Both clover and grass call for early seeding, the earlier the better. Hence for my grain crop I always fall plow the land, and wherever possible I get in some additional work as well. The best cops of oats I have ever had have been where the land was well worked in the fall and ribbed up for the winter. Where the land was ribbed the top of the ridges dried out quickly, and when they were harrowed down by dragging crosswise, there was a nice dry, warm bottom all ready for the grain. The success of these crops I attribute to the earliness of the seeding. In some cases, I believe in sacrificing tillage a little in order to get the seed in the ground early. I use the seed drill. Every grain is then in at a uniform depth, every grain is covered, and I elieve that drilled grain permits of a freer passage of air through the crop, and as a result

there is less rust. The kind of seed to sow depends on the soil.

I have heard it recommended that the richer the soil the heavier the seeding. I have found exactly the opposite to be the case. On one field that is almost sandy, I seed heavily, sometimes as high as two and one-half bushels to the acre. On heavier soil the oats stool more, and I con-

sider six pecks to two bushels quite sufficient seeding, generally seeding the smaller amount. To sow more is waste of good seed. If those farmers who sow three bushels to the acre were to give their seed grain a thorough fanning and

remove one and one-half bushels of the smaller or shrunken seeds and sow the best one and onehalf bushels, they would get a larger crop, I am

Will We Plow Deeply?

66 ULTIVATE deeply" was the advice freely tendered to each and all by the agricultural authorities early in the last century. The farmers of the Island of Jersey are reported to plow 14 inches deep. In England it is a common sight to see three big horses pulling a single furrow plow, running almost as deeply. Old farmers delighted to state that they plowed "right down to the beam." The correctness of this teaching was generally accepted until the late Wm. Rennie came out as an advocate of shallow plowing and the keeping of the plant food and humus as near to the surface as possible, Mr. Rennie soon had a host of disciples. The subject was opened up anew and the relative merits of shallow and deep plowing have been under fire ever since. In the course of a recent visit to Henry Glendinning, I sounded my linst as to his views on this much-discussed topic.

"I believe in doing things the easy way," responded Mr. Glendinning, who stands six feet three, and looks quite capable of doing things the hard way if he wanted to. "I could never see the sense of plowing deeply when clover and alfalfa will work up the subsoil for you and do it much more cheaply and easily than the plow or any other cultivating trol. I think that my friend Wm. Rennie was much misunderstood in his advocacy of shallow plowing. Mr. Rennie believed in shallow plowing, but he believed also in deep cultivation. If you ever heard Wm. Rennie advocate shallow plowing, you also heard him at the same time advocate short rotations and lots of clover."

As we discussed the question further, I was interested to find that Mr. Glendinning started out as an advocate of shallow cultivation at almost the same time as did Mr. Rennie. He related to me the early experiences that opened his eyes to some principles in cultivation that greatly reduce labor.

"My first lesson," said Mr. Glendinning, pointing out the window, "was learned in that field where the orchard now is. We had the field in roots. I plowed part of it in the fall before the land froze up. In the spring I walked over the field, and so far as I could see the plowed portion was not any mellower than the unplowed. I remarked to Mrs. Glendinning that I did not think I would plow the rest of that field that spring. The only thing that worried me was that people might see that I was putting in seed without plowing, and I did not want it to get around that Henry Glendinning was too lazy to plow his land. People, however, were busy on their own farms. They did not stop to look at the doings of their neighbors, and I was just as glad. I seeded the field down to wheat after disking only.

"The wheat came along nicely: One evening I took a neighbor out to look at it. I stood him

J. W., Oxford Co., Ont. ANADA'S foremost farmer," Mr. J. H. Grisdale, contends that manure should be spread in winter. I will admit that this method saves time during the spring rush, and there was a time when I would throw up my hat for it with a whoop. Now I am not so certain that it is the best plan, and the big objection to the winter spreading of manure is that it is only in exceptional cases that the manure spreader can be used. Not only is it difficult to pull a manure spreader through snow banks, but the gearing will freeze and refuse to work. The result is that the manure is cast about in big junks from a sled, and even if the man were careful, the manure cannot be spread thinly enough. This I regard as important. Light applications of finely

Manure to Apply per Acre

longer intervals. This lesson I have learned from experience. Some four years ago I had one of my fields, bordering on the farm next to me, in corn. The same year the field on the other side of the fence was in corn. Both fields had received about the same treatment and were of equal fertility. We bought our seed together, so the seed must have been the same. I manured my field for corn at the rate of 14 loads to the acre. My neighbor applied only six loads to the acre with a manure spreader, and I am confident that he did not carry a bigger load on his spreader than

pulverized manure frequently applied will give

much better results than heavier applications at

I did in my cart. His corn made a better start than mine, and all through the early part of the season it wasn't necessary to climb over the fence to see that my neighbor had the best corn. Mine did better later on, but when the crops were cut for the silo my corn was not one bit better than his in spite of its receiving more than twice as much manure. I bought a spreader, and have been applying less manure but more frequently for the past three years, and with excellent results. I would like also to call attention to experimental evidence on the point. For this I am

indebted to an article in Hoard's Dairyman: At the Pennsylvania Experiment Station they have been carrying on experiments for a long term of years to test the relative value of different amounts of manure. The manure is applied every other year at the rate of six, eight and ten tons per acre. The average value of the increased crop for every ton of manure applied has been as follows: Six tons applied every two years, \$2.16 per ton; eight tons applied every two years, \$1.66 per ton; 16 tons applied every two years, \$1.44 per ton.

Ohio Tests

A similar test has been carried on at the Ohio Experiment Station. Manure has been applied to the wheat crop in a rotation of potatoes, wheat (Concluded on page 19)

Fresh Air and Exercise Combined With Security and Safety.

Fresh Air and Exercise Communes when several bread-this illustration shows the device used at Mandand College, and by several bread-ers of our manufacture of the several several several several bread-nose ring slips along a strong overhead cable attached across the harayard. All who have adopted this method report favorably on it. are "Rate by J. Pixter."

right at the post that marked the division between the plowed and the unplowed wheat land. He did not know that there was any difference in the cultivation, but remarked that he thought the wheat that was on the side that was unplowed was doing the best. We then walked in and examined the stand more closely, and found the wheat on the unplowed land even more vigorous than it looked at a distance. That was my first lesson, and experience since has justified my first conclusion. We plow nothing now but sod. We work in all manure with the double disk harrow. We depend on the sturdy roots of clover and alfalfa to do' all our subsoiling and deep cul-

tivation."

HE is right country we have referring to our s that they are "rig signify the attainm The expression sor I once had with a one of the counties showed me over hi of pure-bred cattle, for milking, and t indicated the 250 a the buildings, that not only in clover, I got there throug I ever grew on my as few other crops time enriched my In these few wor

of the clover crop, gave the two big r popular in every d feed both the stock dairyman, I learned sow clover at every ing grain, he also to be plowed up tha The resultant enrich clover he considere the cost of the seed At the time of my with clover seeding the corn, the growt lowing spring. I d with his experiment following the same cess. My host of t neighbors, had star of impoverished so he always attributes As I

The value of clo power to abstract n gen is the most e fertilizers. It, too, readily lost by leed it were not for nitre simple problem on enough nitrogen in to feed all crops for Of all common field are the only ones th air, and of all legus portant. I have seen by plowing down cl may be followed su



The Buildings and Cattle of Avondale Farm, Brockville, Ont. A. C. Hardy is Properly Proud of His Fine Farm and Herd.

"Right in Clover" is a Good Place To Be

HE is right on Easy Street," is the city man's way of expressing it. In the country we have an equally expressive way of referring to our successful neighbors; we say that they are "right in clover." These words signify the attainment of comfort and prosperity. The expression sometimes reminds me of a talk I once had with a veteran dairy cattle breeder in one of the counties of south-western Ontario. He showed me over his fine buildings, his big herd of pure-bred cattle, which was then in the stable for milking, and then with a wave of his arm indicated the 250 acres of AI land, lying beyond the buildings, that comprised his farm. m am not only in clover," said he with a laugh, "but I got there through clover. It is the best crop I ever grew on my farm. While feeding my cows as few other crops would, it has at the same time enriched my land."

In these few words are summed up the merits of the clover crop, and in them this dairy veteran gave the two big reasons why the clovers are so popular in every dairy district of Canada-they feed both the stock and the land. This particular dairyman, I learned, had made it his practice to sow clover at every opportunity. If he were seeding grain, he also seeded clover, even if it were to be plowed up that fall or the following spring. The resultant enrichment of the soil through the clover he considered splendid compensation for the cost of the seed and the trouble of sowing it. At the time of my visit he was experimenting with clover seeding after the last cultivation of the corn, the growth to be turned under the following spring. I do not know how he succeeded with his experiment, but I know that others are following the same practice with wonderful success. My host of that occasion, I learned from neighbors, had started originally with 50 acres of impoverished soil. Its present productivity he always attributes to clover and dairy cows.

As a Soil Builder

The value of clover as a soil builder is its power to abstract altrogen from the air. Nitrogen is the most expensive element of all our fertilizers. It, too, is the element that is most readily lost by leeching or by fermentation. If it were not for nitrogen, fertilization would be a simple problem on any farm. And yet there is chough nitrogen in the air right above the soil to feed all crops for hundreds of years to come. Of all common field crops, however, the legumes are the only ones that can feed directly from the air, and of all legumes the clovers are most important. I have seen impoverished soils built up by plowing down clover, and this same method may be followed successfully in all cases where

By E. L. McCASKEY

nitrogen is the element lacking in the soil. Of course, where the clover crop is harvested and sold off the farm, the fertility of the soil will not be improved, although as far as nitrogen is concerned it will not be impoverished. The ideal system is either to plow under the whole crop or else feed it on the farm and return the manure to the land.

Clever does more than merely increase the available plant food of the soil. It improves its mechanical condition as well. Heavy clay land is not ordinarily regarded as ideal corn land, but where clover is grown frequently on a short rotation and a crop plowed under now and then, even heavy clay land may be made to produce the very finest of corn crops. This is due to the improvement in the mechanical condition of the soil. The rotting of the clover roots adds humus to the soil, which lightens it up, resulting in more thorough aeration and an increase in the moisture holding power of the soil. I believe there are more soils incapable of profitable crop production through impoverishment of humus than through impoverishment so far as natural plant food is concerned, nitrogen, phosphoric acid, and potash. The combination of clover and dairy cows will restore humus quicker than any other method of which I know.

The Greatest Stock Food

It is for its food value, however, that clover will appeal most strongly to the dairyman, as protein, in which clover is so rich, is also the main requirement in the ration of the dairy cow, and the one which in purchased feeds it is most expensive to put there. Let us say that an average field of alfalfa will yield 2.5 tons to the acre, red clover 1.25 tons, and timothy 1.25 tons. At this rate of cropping the acre yield of alfalfa contains 555 pounds of digestible protein, of red clover 187.5, and of timothy just 70 pounds. In other words, so far as protein is concerned, the red clover is almost two and one-half times as valuable as the timothy and the alfalfa almost eight times as valuable. These figures offer the most convincing argument for the clovers as a crop on the dairy farm that I know of. The man who grows timothy for cow feed is wasting his

Red clover has in the past been the most popular of all the clovers, and I believe still is. It is a biennial in its growth, producing its main crop the second year. I know that fields seeded to red clover will continue to produce some clover for several years, but this, I believe, is due to re-seeding rather than a continuance of life in the old roots.

Alsike clover makes a richer food than does red clover, but does not yield sufficient forage to be as profitable a crop. It has this advantage that it is not as dusty as the other clovers, and hence when mixed with timothy makes an admirable feed for horses. Even driving horses can eat it in quantity without injury. Where it is planned to lease a field in sod for several years, alsike has an advantage in that it is a perennial, and will continue to yield crops after common red clover will have died out. When several crops of hay or where pasturing is intended, I add a few pounds of alsike along with the common red to continue the clover crop from year to year. Alsike, too, has an advantage on wet lands where other clovers will not thrive.

Mammoth Red Clover

Mammoth Red Clover when first introduced was halled as a wonder crop. It is not now so popular. The stems are heavy and dusty and the hay is not so nutritious as that from common red clover. If Mammoth Red is allowed to get too ripe the stems would almost make a substitute for kindling wood in starting the kitchen fire, so woody are they. It does produce a great top, however, and is the Al clover for turning under. It is not so objectionable for feed when grown on thin soil, where it does not make as luxuriant a growth.

Red clover does not compare with alfalfa in nutritive value, or in returns per acre, but it has been grown where alfalfa has not so far been a success. It also fits in better with a short rotation than does the alfalfa crop. There is a place, and a big place, for alfalfa on every farm where it can be grown, but there is also a place for common red clover where much corn is grown and a short rotation followed.

I made the statement in the first of this article that clover will restore run-down soils. I do not wish it to be understood from this that an impoverished soil can be plowed, clover seeded, and a good stand secured. Clover requires an even better seed bed than the common grasses and with a certain amount of plant food available for its tiny rootlets. A stand can be secured on poor soil, however, by thorough after-harvest cultivation and enough working in the spring to give a firm but mellow seed bed. If a light top dressing of manure is then given or an application of complete fertilizer at seeding time, a good stand of clover may be secured. In soils so impoverished that even these measures will not give a stand of clover, and I have handled one such field, I would first seed to common rye and turn it under, then try again for a stand of clover.

(Concluded on page 7)



The New Potato Book.

There are ways choosing seed, cutting it, and preparing it for plant-ing-ways of cultipreparing the soil and fertilizing that add bushels to the total crop.

These points are gathered together in our new 48-page book, "Money in Potatoes." The third edition is just off the press.

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Messessessessessesses **FARM MANAGEMENT** นี้ ของจุดจุดจุดจุดจุดจุดจุดจุดจุดจุด

The Best Grain Mixture

The Best Gran Mixture

OR almost accore of years Prof. C.

A. Zavits has been experimenting
with grain mixtures on the experimental plots in connection with
the Ontario Agricultural College. This
work has brought Prof. Zavits and his
assistants to the decision that onts
and barley will give the best yield per
sere, and that adding a third crop,
sere, and that adding a third crop,
the yield. One and one-half—bushels of each
One and one-half—bushels of each

such as spring wheat or peas, reduces the yield.

One and one-half-bushels of each have given best results in the last two years over Ontario and in Experimental Union work. In the college experiments, however, one bushel of each by weight has been proving the best seeding in a series of experiments covering over him to be carefully attended to in sowing a grain mixture is to get an early maturing variety of eat to correspond with the early maturing barley. For this purpose Prof. Zavita recommends O.A.C. No. 3. This is one of the Professor's own productions. It is the finest quality out grown at Guelph, having the thinnest hull, and is so early that it fits in nicely with barley.

Soy Beans in Oxford

A BE soy beans and soja beans the same? What time should they be sown after hay crop and is the land in Oxford county adapted to the crop? Do they make good feed?—A. B.

Soy and Soja beans are two names for the same crop. We aim to p soy beans about the first week Most varieties are too late for io. The Early Yellow variety Ontario. is one of the earliest and one of the is one of the earliest and one of the best. Even that variety, however, would not likely give satisfactory re-sults after a hay crop. The land in Oxford county should be adapted to soy beans which are exceedingly rich in feed constituents. When ground, a small quantity of the meal improved the raquantity of the meal improved the ra-tion about the same as cotton seed meal. They are richer than any farm crops ordinarily grown in Ontario. They should be sown in rows about 28 inches apart. Two pecks or 30 pounds of the Early Yellow Soy beans is considered quite sufficient seed to use per acre. In Oxford county the average yield per acre would probably be about 15 bushels. As time advances some of the best farmers, es pecially those connected with the dairy industry, will grow a limited quantity of the soy beans, which are extensively grown in Japan and in North-eastern Asia.

Methods of Planting Corn

THE row or drill method of planting corn is still commonly followed in Ontario and Quebec. The investi-gation conducted by the Seed Branch shows that 956 farmers were plantin in drills at an average rate of 2.14 pecks of seed per acre, and 350 planted in squares or hills at 1|17 pecks of seeds per acre. The average results seeds per acre. The average results of thirty-two separate tests conducted throughout Ontario for a five year period shows that the hill method gave one ton of green crop per acre more than the drills, and three-eighths of this ton was in the form of fresh-ly-husked ears. A four year average at the Experimental Farm, Ottawa, shows two and three-quarter tons per shows two and three-quarter tons per acre in favour of the hill method. Hills should be three feet apart each way and contain three or four plants. Rows should be three feet apart and the plants nine inches apart in the row. Three and a half feet spacing might be preferable for large

Clover Seeds

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No.	1	Red	Cle	over		. \$12.5
						. 11.5
						. 12.0
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No.	1	Alfal	fa	(No	thern) 12.0
No.	2	Time	othy	100		. 4.7
						nination!
No.	3	Timo	thy			. \$4.2

Terms cash with order. Bags extra, at 25c each. On all or-ders east of Manitoba of \$25 or over we pay the freight. guarantee seeds to satisfy or ship back at our expense.

Ask for samples if necessary.

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GASOLINE ENGINES 1) to 80 H.P. y Mounted and Traction

WINDMILLS Saw Frames, Pumps, Tanks, COOLD, SHAPLEY & MUIR CO., LTD. growing varieties hill method gives portunity for culti controlling weed; rather more diffic

that which is green One bushel, 70 56 lbs. of shelled 95 per cent., sho plant five acres On acre will req of seed a bus. Se price planted a the drill method, acre.-Seed Branc

Right in Clove (Continued

Clover will not or sour soil. Any sorrel is not in cor clover. The reme plication of lime, or land phosphate est reason for t clover on acid so nodules, which ab from the air in develop, and when develop, the selfof the clover is lo harvested will not

Most of our soils are already inocibacteria. Where grown for several would not take a sow a few hundr from an old clove it in or else trea oculation for red cl plied from Guely charge. Inoculation tant with red clow but artificial inocul so necessary. Clover seed, like

greatly in vitality power, and for this

t advisable to test even when I grow usually do. looking seed that a 90 per cent. When have good seed, I liberal enough that call it extravagant. clover seed is one mon mistakes in have seen fields was four pounds clover to the acre. if every single seed they do not in the would not advise le to the acre, and clover that I ever s over 15 pounds of Clover seeded too stems that are too good feed, and the humus or nitrogen Clover that is see

good start droughty weather : regard as a more my farm than grain down I always put grain in rather thi is a grass seeder drill, it may be us clover, but I have sults by mixing the along with the grain. The best results I have the grain of the gra The best results I h been from seeding of peas, oats, and v ing crop was taken in the season, thus catch the advantage ure and all the pla When seeded with crop I make a point spots in the field to dency to lodge and clover. When grain I set the binder high stubble that will ho carry the clover three ter with a minimum

growing varieties or weedy land. The hill method gives a much better op-portunity for cultivating the land and controlling weeds, but the corn is rather more difficult to harvest than

that which is grove in drills.

One bushel, 70 lbs., on the ear, or 56 lbs. of shelled corn, germinating 95 per cent., should be sufficient to plant five acres by the hill method. One acre will require 60 cents worth of seed a bus. Seed corn of the same price planted a the average rate by the drill method, will cost \$1.60 an acre.-Seed Branch, Ottawa.

"Right in Clover" is a Good Place (Continued from page 5)

Clover will not succeed on an acidy Clover will not succeed on an actory or sour soil. Any soil that naturally produces a thrifty growth of sheep sorrel is not in condition to grow good clover. The remedy is a liberal application of lime, ground limestone, or land phosphate. Perhaps the greater of the production of the growth of the production of the growth of the production of the produ or land phosphate. Pethaps the greatest reason for the non-success of clover on acid soils is that the root nodules, which abstract the nitrogen nodules, which abstract the nitrogen from the air in such a soil do not develop, and when the nodules do not develop, the self-fertilizing qualities of the clover is lost, and hay that is harvested will not be so nutritious. Most of our soils in Oniario, at least,

Most of our soils in Ontario, at least, are already inoculated with clover bacteria. Where clover has not been grown for several years in lowever, I would not take a risk on I would not take a risk on I would not a few hundred pounds from an old clover field and harow it in or else treat the seed for inoculation for red clover, which is supplied from Guelph at a nominal charge. Inoculation is just as important with red clover as with alfalfa, but artificial inoculation is not always so necessary. so necessary.

Clover seed, like seed corn, varies greatly in vitality and germinating power, and for this reason I consider it advisable to test all the seed sown, it advisable to testfall the seed sown, even when Lgrow the seed myself, as I usually do. I want plump, livelooking seed that will germinate over 90 per cent. When I am sure that I have good seed, I sow in quantities liberal enough that some people would all it extraorant. liberal enough that some people would call it extravagant. Sowing too little clover seed is one of the most mon mistakes in clover culture. I have seen fields where the seeding was four pounds of common red clover to the acre. That is not enough it away single seed were to prove the if every single seed were to grow, and they do not in the best of seasons. I would not advise less than 10 pounds would not advise less than 10 pounds to the acre, and the best field of clover that I ever saw had something over 15 pounds of seed to the acre. Clover seeded too thinly develops stems that are too coarse to make good food and these stems that are too coarse to make good feed, and there is not as much humus or nitrogen added to the soil.

Clover I that is seeded early gets off to a good start before the hot, droughty weather sets in. Clover I regard as a more important crop on my farm than grain, and in seeding down I always put the nurse crop of grain in rather thinly. Where there is a grass seeder attachment to the is a grass seeder attachment to the drill, it may be used for sowing the clover, but I have secured good re-sults by mixing the clover seed right along with the grain in the seed drill. along with the grant in the ever got have been from seeding with soiling crops of peas, oats, and vetches. The soiling crop was taken off the field early ing crop was taken on the held early in the season, thus giving the clover catch the advantage of all the moist-ure and all the plant food available. When seeded with the regular grain When seeded with the regular grain crop I make a point of cutting any spots in the field that show a ten-dency to lodge and smother out the clover. When grain harvest arrives I set the binder high to leave a long stubble that will hold the snow and carry the clover through its first win-ter with a minimum of killing.

The Effect of Meadew Weeds

WEEDS growing in hay crops tonnage of cured hay. If farmers had parts of plants of wormseed mus ard, false flax, shepmay actually herd's purse, mayweed, etc., finely round and mixed with their porridge, they would better appreciate why dairy cows or horses toss weedy hay out of their mangers." Some inconsiderate farmers chop weedy hay in a cutting box thus preventing their stock from picking it over and avoiding the weeds. They do not seem to realize that many such weeds are unwholesome or even poisonous, and that when forced to eat them animals fail to make gains, or yield a small quantity of badly flavored milk, and become generally unthrifty. If forced to eat such feed they will consume only sufficient for their existence. The most economical gains are obtained from feeds which are not only highly nutritious from a chemical standpoint but are also relished by the stock.

but are also relished by the stock.

This is a condensed item from the introduction to "Fodder and Pasture Plants," copies of which may be procured by Canadian farmers from the Government Printing Bureau, Ottawa, for the nominal price, 30c. This book has 25 full page illustrations, showing the principal grasses and clovers in their natural colors.

Make \$15.00 more per acre

Send for free litmus paper to test out if your soil is too acid. Also tell us to mail you explanatory booklet No. 85 on Lime as an Agricultural Profit-Maker.

Incidentally you will learn how Mr. L. J. Rounds, by investing \$3 per acre in Caledonia Mari (Nature's only soil-lime) increased his hay output to the amount of over \$15.00 per acre the first year. With Canada as the food farm of the warring allies, you should use lime to get the most out of your land this year.

ESPECIALLY THIS YEAR, CANADIAN FARMERS SHOULD USE CALEDONIA MARL WHICH IS NATURE'S BEST





This photo was sent from Salisbury Plain by one of the ninety-odd boys who went from Preston, before he left for the firing line.

In the background are some of the barracks-he informs us that all of these buildings are covered with Government-tested corrugated iron. All Acorn Iron which we furnish to Canadian farmers must stand this British Government Acid Test.

Be sure to send the coupon, so that we can tell you about it.

They had to pass the British Government Acid Test

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They with thousands of other men -some from your home town-were housed in buildings which were covered with corrugated iron.

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Every dollar you spend for Acorn Iron returns to you one hundred cents' worth of wear-it also buys you a service from our building department which cannot be beaten. We maintain a service department where you can secure plans and building helps free of charge.

Send us the coupon to-day and let us show you how we can help you-we'll also tell you about METAL SHINGLE & SIDING Co., Limited Acorn Iron and what it will do for you.

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Farm and Dairy



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There is noticy in ducks—and aways a good market. Free our ducks own ducks on the state of the second section. Beef first, Bee

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Shur-Gain Poultry Foods

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Order your chicks and eggs now from our splendid laying strain of SINGLE COMB WHITE LEGHORNS.

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S. C. W. LEGHORN DAY OLD CHICKS from prise-winning of ereis and matured to the children of the Strong, vigorous chicks. Carefully shipped. Satisfaction guaranteed or less, 15c: 100 to over 1,000, 16c. E665 FOR HATCHING. Tests 15 Eggs 81.50, 30 Eggs 82.50, 100 830, 1,000 345.00. F.O.B. St. Marys. CARROLL CLIFF POULTRY FARM

Make Your Farm PAY

ITH a good prospect of high prices for farm products in sympathy with the advance now taking place in wheat and grains, the coming year should be a good one to crowd production, and make your farm pay.

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They have been for over fifty years the standard by which other fertilizers are judged. They have always brought good crops and improved the soil. They are "crop producers and cost reducers." Old friends will continue to use them. We invite new ones to investigate their merits. Serd for descriptive booklet.

The American Agricultural Chemical Co.,



Boyer's Poultry Pointers

M. K. Boyer

ON-SITTING varieties lay white
colored eggs. The best winter
layers produce brown eggs. Too
much middlines in the feed will cause
small-sized eggs. The egg gradually
decreases in size and weight as the
laying season prolongs. The size of
the egg, as a rule, increases with
the age of the hen.

I. K. Felch thinks the egg record of a hen should not be measured by numbers, but rather by weight of eggs. His contention is right. In a letter to the writer, Mr. Felch sub mitted the following results for the month of March: 13 Plymouth Rocks laid 276 eggs at 21.3 average per hen; 15 Plymouth Rocks, 334 eggs, average 22.4; 40 Plymouth Rocks. 64 eggs, average 21.7; weight of 504 eggs, average 21.7; weight of the eggs, 26 ounces per dozen. Brahmas, eleven pullets, three of which were hatched August 3, 185 eggs, average 19.1; weight of eggs, average 19.1; weight of eggs, 20 ounces per dozen; 7½ and 6½ ounces for a single egg has been known to be produced. He has four hear that are nordering eggs as known to be produced.

hens that are producing eggs to
maich 37 ounces a dozen. The number of eggs a hen lays is only half the record; weight is the true test as a food supply. Twenty eggs at 32 ounces per dozen is three pounds 51/4 ounces; 22 eggs at 26 ounces a objounces; 22 eggs at 20 ounces adozen is two pounds 11¾ ounces. The Brahmas, though they lay the least in number, lay 21½ per cent. the greater amount of food supply.

The average weight of the Indian Runner duck is four pounds. They do best on a large free range, not standing confinement so well as other

They Owe It All to "Dad."

Above may be seen a "bred-to-lay" White Wyandotte cook. Below are some baby chicks of the same strain. It is now recognised that the male is the important factor in breeding for laying propensities. Those illustrated were bred by L. fi. Guild, Wellington Oo., Out.

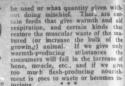
The duck is full grown varieties. In educk is full grown and ready for market at seven or eight weeks of age. Indian Runners are wonderful egg producers, great foragers, hardy, and delicious eating.

Every particle of the egg-yolk, al-

bumen, and shell—must come fr the assimilated food through blood cells. Scientific men tell

blood celts. Scientine men ten us that an egg is an ounce and a half of concentrated food, made up of lime, soda, sulphur, iron, phosphorus, magnesia, oil and albumen.

Experimentalists say that peas, beans, wheat, oatmeal, and some other vegetables contain much flesh-forming substances, but it is difficult to say what proportion of them should



The science of feeding is one that must be studied carefully if success is desired. To underfeed is as based as to overfeed. To give carbonaccous food when nitrogenous elements are necessary, and vice versa, will



"Bred-to-Lay." Feed for the more harm than good. Feed for the object desired, and never allow the fowls to become overfat. With proper feeding goes exercising, for with out proper muscular movements the digestion will be defective, and as good results can be expected.

French poulterers believe in bol-ag the rain. It is put in a pan d ater boiled until soft enough a ing the water bruised between the finger aimed that four pints of oat will fill a pint measure a four pints of buckwheat boile all a pint measure 14 times, for of corn boiled will fill a pi

boiled will fill a pin measure 10 times, as four pints of rye boile will fill a pint measu

> Success With He "Raise chickens

thereby reduce the of living and h lot of fun doing the advice of l Joos in his book, cess with Hens, published. In chapters there complete guide to por lear, practical date way. Full hatching and breed feeding and treatment of disc marketing of eggs

pertaining to the care of hens. Poultry raising, like any Foultry raising, like any abusiness, requires work and a judge.ent. It can be started as small scale with very little cap from which many have ineres gradually to a cr dortable livelibs Success is largely a matter of the ledge and knowledge is best obtain by reading the right kind of the street, "Success with Hone was abad through Farm and Dairy for a regular price of 3t. ...

Re Sex in Geese.—The best tet know of is to note the red ring arm the eyes. The males always han bright red ring, while the ring much duller in color in the femal —Reader, Ontario Co., Ont.



April 15, 1915

The Impo

Pollination through two extent by woonditions, and to

honey bee is the

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by which red clove balance of her rel

lonely wasps, digge wasps. These latt on the pollination a account of their n

sufficient numbers.

Investigations bees are an absoluproduction of fruit frey are also the which cross-pollinat eepting that affect is not considered to

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Thus they are dep cross pollination fo ence. It is claime cross-pollination th

vigorous and more

The relatives which also assist trees and flowers, bee, which is aimo

pollinating

T WAS very not past season that ers were complain in many instances to sumer was well m occasionally and in was a glut of tender ket. Apples of i have been sold at re have been sold at re-the same prices as o same shops. It is to the grower, espec-heavy production, 's should get the advan-price which the grow accept to thus pros-and enlarge the mark fruit.

The Education of A great deal might ease the consumpt educating the consum educating the consun-qualities and seasons varieties. The avera not be expected to id-varieties, or to know at their best, or wi-lar variety is best ador cooking purposes. tion imparted along t it seems to me, bring would cost very little slip in each package

1. The Above-Sur

2. The Pit Style

varieties.

92 State Street, Boston 2 Rector Street, New York Buffalo, Philadelphia, Baltimore, Etc. ***********

The Importance of Bees to the Fruit Grower

Wm. Gibbs, Middlesex, Co., Ont.

Pollination is POLLINATION is accomplished chuests Agricultural College, has fre-through two sgencies: To a small quantity warned fruit growers agriculture, extent by what under favorable the singer of apraying fruit trees conditions, and the special conditions and support of the distru-ced insects. The special conditions are supported by the special conditions are supported by the special conditions and support of the special conditions are supported by the special conditions and supported by the special conditions and supported by the special conditions are supported by the special conditions and supported by the special conditions are supported by the special conditions and supported by the special conditions are supported by conditions, and to a large extent by pollinating insects. Of these the honey bee is the most important, be-cause of its great numbers, owing to the many apiaries that are kept throughout the country. The relatives of the honey bee, which also assist in pollinizing fruit trees and flowers, include the bumble bee, which is aimoust the only medium

trees and flowers, include the fundium bee, which is amoust the only medium by which red cover is pollunaed. The balance of her relatives include ants, lonely wasps, digger wasps and colony, wasps. These latter have little effect on the pollunation of fruit bilosoms on account of their not being present in sufficient numbers.

investigations have shown that bees are an absolute necessity for the production of fruit and clover seed. production of fruit and clovar seed. They are also the only agencies by which cross-pollination takes place excepting that affected by wind, which is not considered to take place to any great extent. In some flowers the pistis are sterile to their own pollen. Thus they are dependent entirely on Thus they are dependent entirely on Cross-pollination the apple cross-pollination the apple except the control of t Prof. F. A. Waugh, or the Massa-

ing at a convention last June he gave some conclusive evidence, showing that the honey bee was the principal and almost the only agent in the pollination of fruit trees. He referred to the delimitations. polimation of fruit trees. He refer-red to the claim to the effect that there are other agencies than bees for doing this work, principal among which is the wind. To determine the which is the wind. To determine the relative importance of these factors he stated that he had taken pieces or glass, coated them with vaseline, and secured there on the windward side of fruit tree. In full bloom, at a distance that was about equal to the distance that was about equal to the distance that was about equal to the country of the countr tance that was about equal to the distance obetween trees. He found that these glasses, smeared as they were with groase, received almost no pollen dust, even when the wind blew through the trees in full bloom in the direction of the plates. He further through the result of the plates when fruit trees are within the plates of the plates. The plates when fruit trees are plates and the plates of the plates of the plates of the plates. There are some varieties of the bees. There are some varieties that is effected is through the agency of the bees. There are some varieties of trees that are self-pollinating, but even these varieties have more and better fruit when bees are present. Prof. Waugh is not only a bee-keeper, but he is regarded as one of the greatest authorities on fruit cul-tival in the latest states.

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Make your home more attractive, and protect it from fire with these beautiful, sanitary "Metallic" Ceilings and Walls will out-last the building and are very inexpensive. The variety of the little paint at a trifling cost. Made in me suitable to all styles of rooms. Can be erected over old building. Write for catalogue. We manufacture a complete line of Sheet Metal Building Materials THE METALLIC ROOFING CO., LIMITED King and Dufferin Streats

SEED CORN

Prizewinning Wisconsin No. 7, the best for the silo. Geo. R. West & Sons, Northwood, R.R S

Are all of the highest quality, hundred of varieties especially suited for Canada, all described in our handsome

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KENNETH McDONALD & SONS, Limited, Ottawa

Sweet, Fresh Silage

is perfectly air-tight. No frozen or spoiled entellage around the walls. Convenient and perfect fitting without harmon can add as without harmon can add as without harmon can add as without harmon can be seen to be seen

THE-HYLO-SILO

Write for prices and catalog GILSON MFG. CO.

FOR SALE

A limited quantity of large, smooth, white, shallow-eyed, Canadian Standard Potatoes. Has yielded us 300 bus. per acre. Originated in Muskoka. Also some Irish Cobblers. Price, \$1.00 per bes, F.O.B., G.T.R. or C.P.R.

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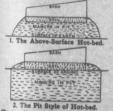




T WAS very noticeable during the past season that although the growers were complaining of low prices in many instances the cost to the consumer was well maintained, except sumer was well maintained, except occasionally and in places where there was a glut of tender fruit on the mar-ket. Apples of indifferent quality have been sold at retail, by count, for

have been seld at retail, by count, for the same prices as oranges and in the same shops. It is highly important to the grower, especially in a year of heavy production, what the consumer should get the advantage of the lower price which the grower is compelled to accept to thus promote consumption and calarge the market for the surplus

The Education of the Consumer A grest deal might be done to increase the consumption of apples by educating the consumer producting the consumer qualities and seasons of the different varieties. The average consumer cannot be expected to identify very many varieties, or to know when they are at their best, or whether a particular variety is best adapted for dessert or cooking purposes. A little information imparted along these lines would, is seems to me, bring good results. It would cost very little to put a printed slip in each package stating the sea-The Education of the Consumer



ture in the United States.

Advertising Fruit the Producers' Duty

J. A. Ruddick, Dairy and Cold Storage Commissioner, Ottawa

son when the variety which it consumers when the variety which it contains should be at its best, and pointing out at the same time the use for which that variety is best adapted. We know by the records of the fruit inspectors that large quantities of late winter apples go forward to market in the early part of the season. If these apples are offered for sale at that time they cannot be expected to the time time they cannot be expected to the time they contain the expected to the first consumers were better advised on these points, they would not be so likely to purchase apples that were out of condition on account of being kept too long, and dealers would be more careful to see that they were placed on the market at the proper time. There can be no question that a large increase in the consumption of the consumption form of advertising. This matter of advertising is one which is commanding much attention these days. The circum full growers spend large sums for such purposes, and those who are interested in the haman trade are also fully alive to the importance of the bubbetty. The consumption of the are increated in the banana trade are also fully alive to the importance of publicity. The consumption of the banana is growing more rapidly than that of any other fruit which com-petes with apples to-day.

that or any other Truit When Competes with apples to-day. The Marketing of Immature Fruit Another matter whind hoserves the attention of fruit growers as a whole is the increasing quantity of immature fruit which is every year being put on the markets both at home and put on the markets both at home and the put of the markets both at home and the country of the co



and have the barn door hang and run sight for all time. This is positively the finest Barn Door Hanger on the nanchet. As it is none implies bleds cannot build in the timel. The stank it hollow with closed the timel. The stank is hollow with closed timester can possibly in a winter or timb in minutes can possibly provide the stank of the sta

Ask for the Louden Line -over 47 years of experience and practical ex-periments go to make Louden goods efficient and reliable. We make

"Everything for the Barn" including Cow Stalls, Stanchions, Litter and Food Carrison, Play Forks and Slings. Write for our new Cutalog The LOUDEN MACHINERY CO. Dept. 49 - GUELPH, Out.

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A Department Devoted to Cooperative Agriculture

Peterboro County Farmers Organizing

OUR very successful meetings were held in Peterboro county, on Thursday and Friday of last week by Mr. J. J. Morrison, secretary of The United Farmers' Cooperative Co. Ltd. Those meetings were held of The United Farmers Cooperative Co., Ltd. These meetings were held at Zion and Stewart's Hall on Thurs-day and at Selwyn and Central Smith on Friday. At all four points the farmers enthusiastically endorsed the new provincial movement among the farmers end Outstain, and consisted new provincial movement among the farmers of Ontario, and organized branches of The United Farmers of Ontario. Mr. H. B. Cowan, of Farm and Dairy, accompanied Mr. Morrison to Zion, Selvyn and Central Smith, and Mr. F. E. Ellis to Stewart's Hall. Some indication of the interest taken in the meetings was when the meeting lasted until after 12 o'clock. The organized farmers at Zion will be known as the Trewern branch of The United Farmers of Catario. The other three organizations tario. The other three organizations will be known as the Stewart's Hall, Selwyn and Central Smith branches. The following officers were elected at

The following officers were elected at the different points: Trewern Branch: Pres., J. H. Gar-hutt; Vice-Pres., Cooli Graham; Sect.-Treas., Wilbert Rosborough; Direc-tors: A. Fitageraid, Geo. Cockburn, Jos. Mann, Aib. Garbutt. The Stewart's Hall Branch

Stewart's Hall Beanch: Pres., Mel-ville Stewart: Vice-Pres., O. Gibbs; Sect.-Treas., R. C. Hanbidge; Direc-tors: W. Reid, F. Driscoll, F. Stew-art, Bruce Savigny, M. Smithson and W. Nikas. Clifford

W. Ciliford.
Selvyn Branch: Pres., J. C. McConkey; Vice-Pres., R. Adams; Sect.Treas., G. B. Nicholls; Directors: Wm.
Elliotz, Alb. McLimoyle; John Jas.
Northey, Heab. McLimoyle, John Jas.
Northey, Heab. McLimoyle,
Central Smith Branch: Pres., Alex.
McGregor; Vice-Pres., T. H. Graham;
Sect.-Treas., Chas. Moore; Directors:
Clayton Telford, W. G. Telford, Medville Scott, Edw. Mahood, Robt. Deyell, Fowler's Corners. ell, Fowler's Corners.
Other Peterboro Branches

So much for the work in Peterboro county during the last week. Earlier Mr. Morrison organized a branch of the U. F. O. at Rush Point, the movement here originating in the articles appearing in Farm and Dairy. Officers

appearing in Farm and Dairy, Officers were alected, as follows: Free, Henry Melville; Vies-Fres, John Pollock; Sec.-Freas, John Rie; Directors: Wm. Yelland, Frank Barton, Jas. Toms, Robt. Seney and Jas. Keating. Not far away an additional branch was organised at Old Havelock. with the following officers: Fres, W. H. Johnston (Who, is also treasurer of the town of the control of O. Ethott and J. H. Scott. All of these are prominent men with a stand-ing in their community, and under their management the Old Havelock branch of the U. F. O. should do good

From Peterboro county Mr. Morri-in jumped to Nashville, in York bunty. There was no hall in the community, but a meeting was arranged in the waiting room of the staranged in the waiting room of the sta-tion, the station agent, ecoperating with the farmers in the organization. For President John Kellam was elected; Yice-Fren, Frank McCluskie; Sco-Trean, Albert Dick, Directors: Richard Agar, Klott. Orane, Henry Barrons and Archie Patterson. Mr. Morrison next found yent for his activities as organizer in Victoria

county. The Blackwater branch is due chiefly to the initial work of Mr. Bert Herron, a young farmer just starting on his own account, and who was subsequently sleeted to the resolution of the starting of the secondary. Other conficers are successful of secretary. Other conficers are successful of the secondary of the successful of the secondary of the successful of the

in favor of organization.

A branch has been recently organ



The Master of the Grange

E. Wardell, St. Thomas, Ont., was cted for the chief executive of the minion Grange at its last annual session.

Deminion Grange at its last annual session.

ised in Mr. Morrison's own county is
Wellington, at Moorefield. The
meeting was called by ex-Warden
Robert McArblur, and she-election of
officers resulted as follows: Press,
Peter Boyer; Vice-Press, Wm. Waters; Sec. Treas, Robt. McArblur,
Among the men who took part in the
meeting sere: H. Morgan and Jas.
Jahn C. Dixon, W. H. Perkins, Robt.
McKeill- and subsers of Maryboro.

Mr. J. J. Morrison addressed a representative meeting of the Central

presentative meeting of the Central Cavan Farmers' Club, and the Fallis Lane Farmers' Club, at Mille Saturday afternoon, April 10. tween fifty and sixty were preat Millbrook Saurious are room, April 10. Between fifty and sixty were present. Those who took part in the speaking were the chairman, Mr. A. J. Fallis, who gave an able address. Mr. T. H. Aiken spoke of conditions in the west Alken spoke of conditions in the west and what the Grain Growers' Grain Company had accomplished for the framers there. Mr. Alicen spoke from experience. The other speakers were Mesars: W. T. Beleh, A. Brwwn, H. C. Argue and H. Russell. Mr. Morrison's address was well received. Although no atock was bought at this meeting it. meeting, it is expected that a share at least will be taken at a meeting of the Central Cavan Club, which is to be held early this week

Progressive Business Clubs

6 . I AM pleased to report that our organization has a paid up membership of 48," writes the secre-

the same day. "We have had all kinds of opposi

we have hind all kinds of opposi-tion to our club, and we expect more. Even our local paper deplored the fact that we had organized, taking the stand that we were going to close all places of business in the village."

Here is an extract of letter r Here is an extract of letter received from the Autaville Farmers' Club:
"We organised on 'December 16th, 1913, and in one year we handled 23 cars of mixed feed amounting to \$17,191.7, with Mr. R. Cook, as president, Mr. W. B. Heagle as secretary and Mr. R. J. Dadoc as buyer, and a membership of 155 members."
The club also handled 25 cut, of binder twine. It was one of the first clubs to see the possibilities of cooperation and affiliated and took stock with the United Farmers' Cooperative with the United Farmers' Cooperative Co., Ltd.

Ontario Farmers Cooperating

A T the meeting of the shareholders of the Ucited Farmers' Coopera-tive Co., Ltd., held recently in Toronto, the shareholders were invited to ask all manner of questions. Very few did so. They seemed to be satisfied with the reports present-Such discussions as did take place centred mainly around the work of the local organizations. Mr. H. W. Monk, the secretary of the North

tary, of the Maple Leaf Farmers' Brant United Farmers' Cooperative Club; Embro, Ont. "We have never had a meeting without some new members coming in. Every member seems when the members coming in Every member seems very much interested in the work, and unless something unforescen happens we will have a big organization here within a year. "We have done some business in buying, we have paid for over \$2,000 on order and we have just sold more of which is used as a storehouse on order and we have just sold more of the present of the work what the local miller was paying on the same day. starting of a warehouse in Toronto by the central company to which the ocals could consign produce for sale

Peter Porter of Burford Grange, reported that his branch had done over \$7,000 worth of business. Secretary Morrison described two methods of Morrison described two methods of financing which might be used by local organizations. The members of a branch might go on a bond for \$8,000, and authorize their secretary to sign cheques up to that amount. If necessary the secretary could be bonded. Their bond or letter could be bonded. Their bond or letter of credit with a copy of the resolution authorizing the secretary to sign cheques to that amount, could be handed over to the local bank. This system would enable the secretary to settle for consignments of goods when received.

Where members of branch organiza-tions do not care to personally be-come responsible, even with the other members of their branch, for such a large sum as \$1,500 or \$2,000, possible for them to give their in-dividual notes for sums of \$40 or \$50. dividual notes for sums of \$40 or \$50, or whatever amount they cared to. The secretary could then be authorized by resolution to draw-cheques on the bank for a sum equal to the total amount of the notes. These notes, and a copy of the resolution, could be given to the banker. In this way, no member was responsible for more than the amount of his in-

Experiments in Weed Eradication

weed eradication have how been conducted for three years in Ontario through the Experimental Union, whose members live in all parts of the province. The object of this work is to have carried on by this work is to have carried on by men on their own farms experiments in the eradication of weeds, the results of which will furnish data from which definite statements may be made regarding the best methods of control ling the various bad weeds. At the present time we have very little reliable information concerning the best methods of dealing with our various bad weeds on different kinds of soils

bad, weeds on different kinds of soils and under various conditions of cultivation and cropping, and hence the necessity for such experiments.

This work has progressed rather slowly. It has been hard to get men to cooperate in it for various reasons, and even harder to get them to carry out the directions for the experiments and make satisfactor, reports of the and make satisfactory reports of the results they obtained. However, sufficient experiments have been successfully carried out and reported upon during the past three years to furnish considerable valuable information about the eradication of the various weeds experimented with.

The reports received of these co-operative experiments indicate: First, That good cultivation followed by That good cultivation followed by rape swn in drills provides a mean of eradicating both Perennial Sew Thiste and Twitch Grass. Second, That rape is a more satisfactory crop to use in the destruction of Twitch Grass than buckwheat. Third, That rape gives much better results in the eradication of Twitch Grass and Perennial Sow Thistle when swn in drills and cultivated than it does when sown broadcast. Fourth, That thorough deep cultivation in fall and spring,

OOPERATIVE experiments in followed by a well cared for hoed crop weed eradication have now been will destroy Bladder Campion. Fifth will descript Blander Campion. Fifth, That mustard may be prevented from seeding in oats, wheat and barley by apraying with a 20 per cent solution of iron sulphate without any serious injury to the standing crop or to fresh dings of clover.

Points on Mustard Spraying

Points of interest brought out by the experiments in spraying with iron sulphate to destroy mustard were:

1. The necessity of spraying early,

1. The necessity of spraying early, just when the plants are coming into bloom. If the spraying is loft too late, the older plants will not be destroyed by the solution, and wil form seed, and hence the experiment will not be entirely satisfactory.

2. To spray thoroughly, and with a good pressure. In order to spray thoroughly with an ordinary broadcast attachment, it is necessary to keep the horses walking very slowly. If an attempt a made to cover the ground the property is made to cover the ground missed, and the results will not be satisfactory.

3. In regard to the cost of spray.

astifactory.

3. In regard to the cost of spraying with iron sulphate it was found that the cost of material per acre varied from \$1. to \$2.40. If the iron sulphate is bought wholesale, it can be purchased at \$1 a cwt., so that \$1.50 to \$2.50 an acre should cover the entire cost of spraying.

the entire cort of spraying.

These cooperative weed experiments will be continued this year. The weeds to be experimented with are Perennial Sow Thistle, Twitch Grass, Bladder Campion or Cow Bell, Wild Mustard and Ox-oye, Daisy. All who have any of these weeds on their farms are invited to write to the Director of Cooperative Experiments in Weed Eradication, O.A.C., Guelph, Ontario, who will, gladly furnish information concerning this experimental work.

Pointers R. H. Hare

April 15

I is a go crowd w stop. A know when still getting profitable to population of The stand judge their denough. Let and third cla I believe e

They are the If you are r good judge stock. Don't between you Sheep shoul marketed in This will ne but remembe always bring care, too, imp

Little thing good care, dip provement of that war wil The small f

Ten men ha business for one that goes The enforcem use of bells, or enclosed yard ing the sheep are ways of o culty.—Extrac

Docking OCKING: -These place will six to 10 day lamb gets the and dangerous In both cases ary, absolute struments and

In order to o wooden mallet necessary. An of a log or b back against l lying along the and pulls the dage toward th operator then | is between two vertebrae, and thereon, detach sharp tap of t skin of the tail to the operation ing released as some protection end of the bone stump to heal

With fambs th of age, it is w twine tightly a point when de. This ma hours after the use a red hot cl prevents bleeding the tail should to an inch and from two to the ton

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Pointers for the Shepherd

Little things count. In addition to good care, dipping is necessary for im-provement of wool; and remember that war will cause a shortage of

The small flock will give better re-turns for the beginner than a large

one.

Ten men have gone out of the sheep business for various reasons for the one that goes out because of dogs. The enforcement of the dog tax, the use of bells, or the building of a small enclosed yard near the barn and training the absent to some there at ing the sheep to come there at night, are ways of overcoming the dog diffi-culty.—Extracts from an address,

Docking and Castration

DOKING and castration of lambs.

DOKING and castration of lambs.

—These should take place place when the lamb is from six to 10 days old. The older a lamb gets the more severe, serious and dangerous these operations are. In both cases three things are necessary shearing relaminosay, sharp in the control of the cases the challenge of the cases the challenge of the cases the challenge of the cases the case of the cases the challenge of the case of the cases of the case o ary, absolute cleanliness, sharp in-

ary, absolute cleanliness, sharp in-struments and common sense. In order to dock a lamb properly a wooden mallet and sharp chied are necessary. An attendant sits astride of a log or bench with the lamb's back against his breast and its tail Jying along the solid wood. The at-tendant grips the still close to the body and pulls the skin of that appen-dage toward the lamb's body. The operator then locates a point, which and pulls the skin of that appendage toward the lamb's body. The dage toward the lamb's body. The operator then locates a point, which is between two protuberances of the vertebrae, and placing the chisel thereon, detaches the tail with a sharp tap of the mallet. When the skin of the tail is drawn up previous to the operation, it slips back on belief the protection and covering for the end of the bone, but also enables the some protection and covering for the end of the bone, but also enables the sound to the same to be some protection and covering for the end of the bone, but also enables the sound to be supported by the same that the sa

of mature sheep with lone tails and there is nothing betrays carelessess on the part of the shepherd as quickly as this neglect. Docked animals look neater and more uniform and have a rounder, fuller appearance of hind-quarters, besides being more change.

cleanly.

Castration is usually performed at the same time as docking and this, too, is all important. On no account let the grade male go unattended and even with pure breds keep only the best and strongest if you wish to establish or maintain your reputation as a shepherd. There is a special lamb emasculator which may be procured, but as the average beginner does not usually possess such an instrument, we will describe the common method.

Gomman Method of Castration

Common Method of Castration Common Method of Castration
An attendant is necessary to hold
the lamb much in the same position
as for docking, with a sharp knife
the lower portion—about one-third—
of the scrotum or bag is cut off, the
testicles are then skinned out, withtesticles are then skinned out, with drawn one at a time, and the cord severed. In older lambs over three weeks of age, it is well to tie the cord with a piece of silk or fine twine which has been dipped in some dis-infecting solution, or severing the testicle. Late lambs which can be testicle. Late lambs which can be placed on grass usually heal quickly and without trouble. W dulckly and without trouble. Where the lambs come earlier it is imperative that the pen be kept clean and dry, and not too warm. Abundance of bedding and ample room for ex-

of bedding and ample room for exercise are two very necessary adjuncts to health after castration.

If there is any soreness or swelling the second day after the operation the wound should be bathed with
carbolic acid and hot water and again
annointed with vaseline. The ewes
should not be fed very heavily at
this time and care should be taken
not to change their feed until the
lambs have recovered from the effects
of the operation.—Bulletin 37. Sask.
Dept. of Agri.

Ensilage for Ewes

Ensilage for Ewes

On the control of the control of

EUREKA HARNESS OIL

is manufactured expressly for harness. That's why it prevents cracking and makes the leather soft and pliable. One rubbing with Eureka makes an old set of harness look like

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PUBLISHED EVERY THURSDAY

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We discretize that every advertiser in this issue is reliable. We are able to do this because the advertising columns of Farm and Dairy are as carefully called as the reaction of the because the advertisers of the second of th

The Rural Publishing Company, Limited PETERBORO, ONT.

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

Unfair Taxation

T HE inquiry conducted by the Dominion Grange a year or more ago into the assessments of Ontario townships, revealed a wide variation in the relationship of assessed value to real value. The township of Artemesia in Grey county, for instance, assesses improvements at thirty-three and one-third per cent. of their value and land at sixty per cent. of its value, while the township of Carlow in Hastings county assesses both improvements and land at one hundred per cent. of their value. So long as local assessments were made for municipal taxation only, it did not matter greatly whether assessments were at full value or at only a percentage of full value. Now that the local assessment has been made the basis for provincial taxation, however, there is a danger that grave injustice may be done to those townships assessed at full or nearly full value. We can best illustrate the point by examples.

Beverley township, in the county of Wentworth, assesses both improvements and land at one hundred per cent. of their value. The township of Binbrook in the same county assesses improvements at twenty-five per cent, and land at seventy-five per cent. of their value. Let us assume that of \$150,000 of assessable property in both, \$50,000 is represented in improvements and \$100,000 in land. Beverley would assess this value at \$150,000 for taxation purposes; Binbrook at only \$87,500. On the new provincial tax of one mill on the dollar, property in Beverley the value of \$150,000 would pay a tax of \$150, while property in Binbrook to the value of \$150,000 would pay only \$87.50 in provincial taxes, while under a just system of taxation both should pay the same amount,

It has been our observation that the poorer townships are assessed most highly. -It is evident, therefore, that with present assessments as a basis of taxation the weight of the provincial tax will fall most heavily on the townships least able to pay it. This matter of variation in assessment should come up for further consideration at the next session of the Ontario Legislature. The best way of getting around the difficulty that has yet come to our attention is the suggestion of the Tax Reform League that the tax for each township be apportioned according to the population of the township and raised by a tax on land values. Townships with a low assessment would then pay a higher rate than townships assessed at or near their full value, and justice would be done to all.

Too Many Irons

66 K EN" we called him; short for Kenneth, his baptismal name. "Ken" was born on a farm, learned the trade of painter and paperhanger, was always speculating in this and that, and finally he bought a farm. "Just farming" proved too slow an occupation for a stirring man like "Ken." Soon he added a large tract of standing timber to his other possessions and started into lumbering on the side. Soon his neighbors began to find out that he had been a painter. Good painters were scarce in the community, and his services were soon in demand. There was joy in the homes of the women folk when they found that they had a skilled paperhanger right in their midst. "Ken" was certainly kept busy.

He was kept too busy. He found that he didn't have time to look after his stock, and soon practically the whole farm was in hay. The crops got shorter and shorter each year. The decreasing revenue of his farm needn't have worried "Ken" much had his other lines of endeavor been going well. But little attention as the farm got (along with the painting and paperhanging) it prevented the thorough attention to the lumber business that it demanded, and it, too, began to show a balance on the wrong side.

The farm is now for sale, and it is rumored that "Ken" won't have much left for himself when he squares with his creditors. During the years that we have known him, he has been the hardest working man in his community. His mistake lay in scattering his interest too thinly. He had too many irons in the fire. Concentration of purpose is needed to make a success of any business-and particularly farming.

Mutual Fire Insurance

I NSURANCE against fire affords a fine field for cooperative enterprise. Practically every province in Canada has its rural insurance companies, the most of them very successful. As is usual, too, in cooperative enterprise, these mutual companies are confined almost altogether to the rural districts. One of the strongest of these is located in Ontario Co., Ont. There is a very successful organization in the Annapolis Valley of Nova Scotia, and there are many small concerns in between. The foundations have been well laid for future development in Canada, but the state of Minnesota offers an example of just the extent to which this form of cooperative enterprise may be carried. Their work should be an inspiration to rural organizations here in

Commissioner Works of Minnesota issues the statement that the one hundred and fifty-seven farmers' Mutual Insurance Companies of that state had under force at the end of 1914. \$369,219,259.13 of insurance, comprising 164,307 policies, amounting to one-quarter of all the fire insurance earried in the state. The average value of a policy was \$2,241. The gain in assets for the year was \$5,816.37 and the gain in insurance

\$96,995,840.30. Who said that farmers could not cooperate? It certainly cannot be said of the farmers of Minnesota, and we in Canada are rapidly proving that it does not apply to us.

Late Breeding Again

WORDS of wisdom were spoken by Mr. R F. Hicks at the last annual convention of the Canadian Holstein-Friesian Association when he sounded a word of warning against breeding heifers too young. The effects of such a breeding policy may be partially mitigated by liberal feeding, but as Mr. Hicks contended, a combination of liberal feeding and later breeding than is common will alone maintain the substance and vigor of the breed.

The same is true of all breeds of dairy cattle; and some have suffered even more than the Holstein by the over-anxiety of their fanciers to quickly increase the number of their herds. One of the great lessons that should be deducted from the record recently made by Lass 66th of Hood Farm is the wisdom of deferred breeding. This young cow, which recently made a world's record for yearly butter fat production as a senior threeyear-old over all breeds, did not freshen for first time until twenty-nine months old. Her great record was made in her second lactation period. Thus from a Jersey source has come additional evidence to substantiate the correctness of the claims of the past president of the Canadian Holstein Association, Mr. Hicks.

Is Your Family Safe?

WHEN a young man slips the wedding ring on the finger of his bride, he should slip into her hand a life insurance policy. He who is not willing to do so has no moral right to assume the responsibility of establishing a home."

These are not the words of a life insurance agent. They were spoken by a noted evangelist now campaiging through Eastern Canada in the interests of Christfan Citizenship. Farm and Dairy ventures the assertion that among the 179,-598 widows in Canada at the time of the last census, many thousands would be happier today had a substantial life insurance policy accompanied the wedding ring. We wonder just how many of these 179,598 widows have been left to actual want because of the failure of their husbands to provide for them in the surest and cheapest way-by an insurance policy substantial enough to guarantee independence for a few years at least. We hold no brief for the life insurance companies, but like the evangelist we have quoted, we see it as the plain duty of the husband to provide for his wife and little ones in the case of the untimely death of the breadwinner. In no case is life insurance more needed than by the farmer whose property is mortgaged or insufficient to support his family in comfort were he to be removed.

Discredit to "Made-in-Canada"

THE "Made-in-Canada" propaganda has been effective all over Canada. It presents its appealing message every day:

"One of the most patriotic services Canadian people can render the Empire is to insist on purchasing products made in Canada." But what a sad comment on that justly patriotic maxim is this trailing record of shoddy materials, of exorbitant prices, and of middlemen's insolent and unrestricted graft !-- Toronto Globe.

"What a clean heaven some of us are getting ready for! No vaccum cleaners, no running water, no music, nothing but die! And we expect to be entrusted with golden pavements, harps, etc. better tune up a bit here below."-Farm, Stock and

Fertiliz In One Case the

A BOUT a year sults of some fertilizers. T was not a favorab crops went wrong turnips, where the l made a dead set at pletely destroyed However, last seas year." and we wer ing one of the be grew, and along w distinct success w tilizers that we have

Before detailing self. I may be perm some reasons why s farmers say that th tilizers and they ar good, got a better c fairly careful experi a yearly increasing ficial fertilizers, ha a shadow of doubt supplying plant fo ingly profitable one play a very importa of anyone failing know there is a reas not visible to the ey increase of six tons gels, and should ne also know a case of the yield of a crop he would never ha he not kept careful Poor Experime

A real reason wh tilizers sometimes d crop may be that t full of manure. I make their trials in while I use fertilize I am free to confess any particular benetreated to a dose year anyway, and I ficial article to a doubly sure." I no tice that the richer ured the land is, the from the use of fert that if 20 tons of per acre is applied, the use of the artifi smaller than if only were used. We may ed that the poorer more profitable we of fertilizers, and the subject of my le the nature of proof

The crop was Sv the soil a rather li The previous crop ha grown with fertilize only had one moder barnyard manure in as far back as I hav of it. The stubble and a light dressing 10 loads an acre) wa ing the winter.

after seeding and smooth with harrow then rolled. Five d were used, ready m 100 pounds of each, cient for six rows, application being at pounds an acre. O in without any ferti The fertilizer was pur planter that has an that purpose, and made with a doub plow. In this way

Fertilizers Increase Turnip Yields

In One Case the Increased Yield by Commercial Fertilizer'was 12 Tons an Acre at a Cost of 371/2 cts a Ton

Alfred A. Hutchinson, Wellington Co., Ont.

A BOUT a year ago I reported results of some tests we made of fertilizers. The season of 1913 was not a favorable one, and some was not a lavorable one, and some crops went wrong altogether, as in turnips, where the lice seemed to have made a dead set at the plots and completely destroyed their usefulness. Illowever, last season was a "turnip year," and we were favored in having one of the best crops we ever any one of the best crops we ever any one of the best crops we ever the complete of the complete of the best crops we ever the complete of the tilizers that we have yet acheived.

Before detailing the experiment itself, I may be permitted to remark on some reasons why we sometimes heaf farmers say that they have tried fer-tilizers and they are no use, did no good, got a better crop without them, and so on. Six or seven years of fairly careful experimental work, and a yearly increasing actual use of arti-ficial fertilizers, have proved beyond a shadow of doubt that this form of supplying plant food is an exceed-ingly profitable one and destined to ingly profitable one and destined to play a very important part in the ag-riculture of Ontario; so when I hear of anyone failing to get results, I know there is a reason. One possible explanation is that the increase is not visible to the eye. I have had an increase of six tons per acre of mangels, and should never have suspected it had I not used the scales also know a case of a man doubling the yield of a crop of sweet corn, but he would never have known it had he not kept careful tally of his pick-

Poor Experimental Ground

A real reason why commercial fertilizers sometimes do not increase the crop may be that the soil is already full of manure. I have known some make their trials in the garden; now, while I use fertilizers in my garden, while I use fertilizers in my garden, I am free to confess that I never see any particular benefit, but then it is treated to a dose of manure every year anyway, and I only use the artificial article to make "assurance doubly stre." I notice, too, in practice to the see of the second particular to the second particular from the use of fertilizers. It follows that if 20 tons of barnyard manure per acre is applied, the returns from the use of the artificial will be much smaller than if only half the quantity were used. We may take it for granted that the poorer our land is, the more profitable we shall find the use of fertilizers, and that brings me to the subject of my letter, which is in the nature of proof of these asser-

The crop was sweet turnips and the soil a rather light sandy loam. The previous crop had been fall wheat grown with fertilizer; the field had only had one moderate application of only had one moderate application of barnyard manure in 15 years, which is as far back as I have any knowledge of it. The stubble was fall plowed and a light dressing of manure (about 10 loads an acre) was spread on dur-ing the winter. We plowed again after seeding and worked down smooth with harrows and cultivator, then rolled. Five different fertilizers were used, ready mixed as symplical. then rolled. Five different fertilizers were used, ready mixed as supplied by one of the Toronto packing houses, 100 pounds of each, which was sufficient for six rows, 38 rods long, the application being at the rate of 400 pounds an acre. One row was put in without any fertilizer as a check. The fertilizer was any in which the control of the control The fertilizer was put in with a notato planter that has an attachment for that purpose, and the drills were made with a double mould board In this way all the fertilizer

was right under the row of turnips, and there was no possibility of the different kinds getting mixed. To further guard against any possibility of mixing, through the hopper not being quite empty when a fresh lot was put in, only the two middle rows in each plot of six were weighed.

	Figure	s That Talk	
Plot	Composition	Yield per acre	Cost of Fertilizer
1	10-5	251/4 tons	86.30
2	2-8-5	24% tons	7.30
3	8-10	231/2 tons	8.20
4	Nothing	10% tons	
0	31/4-8-6	24% tons	8.55
6	16	221/2 tons	4.50

The figures in the first column represent the per cent. of nitrogen, the second column the phosphoric acid, and the third the potash. There are here three fertilizers containing the same per cent. of phosphoric acid and varying quantities of potash. One contains nearly twice as much nitrogen as another, and one none at all. Plot 3, with double potash, but no nitrogen, gives a little the lowest yield, and No. 5, with nearly double nitrogen and a little more potash than No. 2, gives no larger yield. Nitrogen is of doubtful value, and an in-crease from 2 to 3½ per cent. is ap-parently useless. Neither does the increase in potash give any result (see plots three and five, with 10 and six per cent. respectively.) But an increase in phosphoric acid-shows plainly (see plot one). That some potash is of benefit can be clearly seen by comparing plot six, which re-ceived none, with plot one, which, while not having so much phosphoric acid, received a five per cent. dressing of potash.
What Increased Yields Cost

Not the least interesting part of this test is the cost of the increases in yield by the use of the various mix-tures. The cheapest gain was made by the acid phosphate on plot six, 12 tons at a cost of 37% cts. a ton. But this is followed very closely by the 10-5 on plot one. Fifteen tons, costing 42 cts. a ton, or comparing it with No. six, the extra three tons an acre cost just 60 cts. a ton. This was cer-

tainly well worth while.

The increase of—14 tons on plot two cost 52 cts. a ton; 13 tons on plot three cost about 63 cts., and 14 tons

Any of these show a most economical increase in production. When it is considered that not over one-half of the value of these fertilizers has been used yet; that probably one-third will be available for this year's crop, and there will still be some left for use next season, we must admit that artificial fertilizers are a paying proposition, and that we are acting in a most unbusinesslike and shortsighted manner if we refuse or neglect to avail ourselves of their use.

Losses from Smut

T is estimated that the losses from smuts in Ontario grain crops amount to \$2,720,000 annually, amouts in Ontario grain crops amount to \$2,720,000 annually, about two-thirds of which occur in oats, wheat being the next greatest sufferer. To sope with this danger Buffletin 299, entitled "Smuts and Rustsy of Grain Crops," prepared by J. E. Howitt and R. E. Stone, has been issued by the Ontario Departbeen issued by the Ontario Depart-ment of Agriculture, for free distri-bution to those who may apply for it. This very practical bulletin goes fully into the cause and cure of smuts and rusts, and gives a number of ways of treating seed grain in order to from these causes.

Here is a chance to get a Silo Free

The winner in the Ideal Green Feed Silo competition gets a silo free of all cost.

Open to every farm owner. Costs nothing to enter.

THE competition is open to any Canadian farm owner or to any member of his family liv-ing on the farm with him.

It isn't necessary to spend a cent to enter this contest. There are no entrance fees. The prize will be awarded to the cre who gives the mort and best reasons why there should be a silo on every farm.

The "reasons" should be written plainly in pen and ink, or type-writer, on one side of the paper only, and sent to our Peterboro ad-dress, as given below.

The prize will be one of our 10 x 22 Ideal Green Feed Silos, complete with roof, having a silage capacity sufficient for 7 or 8 cows.



MADE IN CANADA

If the winner of the prize prefers a silo of larger size he will be given credit for the list price of a 10 x 20 silo toward the payment of a larger size silo.

Should the winner of the prize purchase an Ideal Green Feed Silo-before June 1st, 1915, the date this contest closes, credit will be given him for the list price of prize silo-toward payment on whatever size silo he may have ordered.

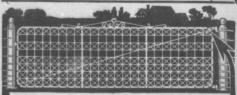
The contest will close June 1st, 1915, and no entries will be considered after that date.

Our new silo book, containing a great deal of silo and silage infor-mation, will gladly be mailed upon request.

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OUR PATENT HINGS-CLIP
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relieving the trame from any unnecessary statis.

is supplied with all "IDEAL" GATES. It is positive and can be opened either way. Raise the themb latch and push the gate open; when through which is shulled always latch. awing it shut—tt always locks.
These new features are all covered by patents and "IDEAL" GATES are the same of the The McGregor Ban well Fence Company, Limited. Walkerville - Ontario



100 not give up trying to succeed, for one who fails is worth a great many of those who never try.

The Gentle Liar

scared enough to take to my heels

with my face towards home, but then I knew I wouldn't have a chance to

By ANNA C. CHAMBERLAIN

(Continued from last week)

1OT often," returned Uncle Eph-Of often, returned Unite Epariam with precision. "I was rather small to be trusted so far but I remember I went one afternoon when pa was away an my two brothers had the chores to do. It was war time then, an' everybody had to war time then, an' everybody had to have the paper every day same as they had to have breakfast. Ma cailed me in 'bout three o'clock in the after-noon an' said if 1'd promise to go straight thee, an' not loter an' look for pretty things in the woods as I always liked to do, I might go to the post office for the mail. Guess I me to the mail of the paper, throwin' down hay for the horses, an' all such things, just whever the big all such things, just whever the big all such things, just whatever the big boys hollered for me to do. Big boys ain't easy bosses for little ones, so I was glad to get off, let alone the honor of being trusted.

an' I took my skates an' set out. That winter the snow had fallen before the hard frost, an' the ice was as clear and smooth as glass. The wind clear and smooth as glass. The white was straight in my face, an' cut pretty sharp, besides hinderin' me a good deal, but I consoled myself by thinkin' it would be a help in gettin' back, an' it was not long before I was across the little lake an' takin' off my skates at the edge of the wood."

"So Ma she wrapped me up warm,

this moment Aunt Martha's knitting needles clicked warningly, but Uncle Eph. was under the spell of the intent look on the school teach-er's face and did not heed. He went

on:
"This was to me the most ad turous part of the journey. never before been allowed to go through this bit of forest, as wild animals had been seen there, an' it was considered dangerous. But I had often thought it over an' planned how I would drive off any wild critters I might meet there. I was no cowardly might meet there. I was no cowardly youngster; but now that I was on the spot, I forgot all about my schemes for outwritin an' catchin' wild beasts, an' I walked alowly along, cautiously lookin' from side to side, expectin' an' almost hopin' to see some hairy form an' gleamin' eyes through the tree trunks, yet all the while sort o' prayin' inside of me that I wouldn't. Then all of a sudden I stopped short, an' my heart came into my throat with such a jump that I had ro shut my mount light to keep it inside. There just before me, in the very pat I was followin', I saw the very path I was followin', I saw the very path I was followin', I saw enormous bear tracks. I knew they was bear tracks, 'cause bears had more than ence prowied around our sheep pen in the winter time when the snow made it hard for them to get food. But these was the largest tracks I'd ever set eyes on. They weren't less than fourteen inches, an' mebbe more'n that. O' course I was "I didn't get there any too quick either, for I was no sooner off the bank an' out from the shore than the bear came lumbering down. Away I went, but he was handy on the ice, good deal faster than I had been expectin', so that he was almost on my heels when, to escape him, I made a sudden sharp turn to the right.

"This was a lucky move, for the bear, weighing about twenty times as much as I did, an' bein' in no ways as supple, rolled clumsily on his huge back as he turned, an' in the time it took him to get up again I had a chance to get away.
"I thought this was a good joke on

"I thought this was a good joke on the bear, an' tried it again an' again, managin' to gain a little with every turn. But by and by I found I was gettin' tired, an' then I began to wonder how I should ever get away from the hungry beast. I just couldn't keep skatin' an' dodgin' all night, an' was the best I could do now was to the best J could do now was to ep well a rom his hungry jaws, w in the day of the gain a keep well a how in th in which to get my skates off an we reached the other side an' make a run for the house?"

I knew I wouldn't have a chance to go three miles to the post office every winter's day, an' I didn't want to turn back. So I went on, treadin' softly as I went, lookin' on all sides at once, an' tryin' my best not to breathe any at all." By this time the teacher was com-pletely under the spell of the tale and the thrilling situation was bringing mist before her eyes. Even Aunt Martha was beginning to succumb to

Where the Animals Are Pets as Well as Money-Makers.

It is evident that on this farm the children treat the live stock as pets. The little "bareback rider" illustrated herewith appears to be perfectly at home and the young animal does not seen to object to its burden in the least. The photo from which this illustration is reproduced was taken on the farm of Thes. Morrow, Huren Co., Ont.

At the mention of bear tracks Aunt martha's needles began to rattle like The teacher's a pair of castanets. round eyes and expression of sympathy had, however, temporarily destroyed Uncle Eph.'s hearing, and his tale went on:

"Then all at once I saw the bear, an' it was a good thing that my teeth was tight shut or this time my heart would have jumped clear out of my mouth for sure.

"There in the crotch of a large tree the bear sat, a monster an' no mis take. He saw me, too, an' appeared to admire the looks of me, for after grinnin' once or twice he started to back down out of the tree, evidently to make a nearer acquaintance with

me.
"This wasn't to my notion at all, so I made a bee line for the shore, where in less than half a minute I got on my skates an' was off on the

the "atmospeer" of interest, as the irregular sound of the castanets showed. But Uncle Eph. was unconscious of everything but the fascination of his reminiscence. His kindly eyes glowed as he drew near the climax

of his tale.
"I was bound to try for it anyway, for the idea of furnishin' a meal for that bear grew more an' more unpleasant as supper time drew near, so I made a great spurt for the land-in'. I went with all my speed, but I was only a little feller, while the bear had all the advantage of his longer legs, if I was spryer in dodgin', an' I saw that he was always gainin' on me while I went straight. Then I noticed that this was because his greater bulk took more of the wind, which was blowing towards the shore an' therefore helped him along. As soon as I thought of this, I unbutton-ed my little jacket an' holdin' it out on the sides, used it as a kind of

a sail. This helped me a lot, an' the old bear stopped a-gain'a' on me; but still I couldn't gain on him, an' there we both was, runnin' an even race, an' a steep bank to be climbed an' all of twenty rods to be run before I

all of twenty rods to be run before I could reach safety.
"I was gettin' mighty tired, too, so I gave a sudden dodge to gain a little advantage, if I could; an' in doing this I turned directly towards the great hole in the lake where we had been cuttin' the supply of ice for the icchouse. This hole was, I guess, about twenty feet long an' eight feet across. As I saw this, a wonderful idea came into my head, an' I give another dodge an' thought hard.

"I could see, even if I was a little feller, that this new idea gave me a desperate chance; but it was a chance anythow, an' there wasn't another that I could see. I was sure that I couldn't get my skates off an' up to the house before the bear would have his teeth into me, an' I was so tired I couldn't run much longer. So I doubled on my tracks once more an' then set out on a steady skim towards the dark open hole. When I was almost to the edge I rocked on my skates, easy like, to slow my pace, an' then gave a great spring which landed me on all fours an' panting on the ice at the other side of the hole. As I was scramblin' to my feet I heard a mighty snort an' growl, all in one, a crash of thin ice, an' most tremendous puffin' and splash-in'. The old bear was in the water, an' I felt sure enough that he would never get out again. But I wasn't takin' any chances, an' I didn't let any grass grow under my feet as I made for the shore—if grass can grow on the ice in the dead of winter. "Almost as fast as if the old bear

was still behind me I scurried to the landing place, pulled off my skates, an' scrambled up the bank. Then I tried to catch my breath easy and put an indifferent air as I went into the house; but it wasn't good actin'. Ma says out right away, 'For pity's sake! what ails the boy?' 'Oh, no-thin',,' says I. 'I've just been killin' a bear. That's all.' The big boys a bear. cive a hoot at this, but they more'n half believed it, an' they had to be-lieve the rest in the mornin' when I took them out on the lake an' showed them the old fellow frozen fast in the

"They got axes an' chopped him loose, an' then we tied ropes around him an' hitched the big team on an' hauled the carcase up to the house, an' we had bear steaks nigh about all winter. That bear must have weighed about two thousand pounds, I should judge," ended Uncle Eph-That bear must have riam in a reminiscent tone

The school teacher had been so intensely interested in this thrilling ale that she had no eyes for anything Uncle Ephriam's glowing face and his expressive gestures, and did not perceive the dark shadow which not perceive the dark shadow which had slowly grown an Aunt Martha's brow; and having no ears for any-thing but the story she had not heard the rattle of the castanets. So she was quite startled when that good lady, dropping nearly a needleful of stitches in her agitation, asked with stern and blood-curdling emphasis: "Ephriam Willets, just how much of that story is true?"

"Why-why-Marthy," he hesitat-

"Why—why—Marthy," he hesitated; "it's all true-er-that is-all-all—but that—about the bear."
"You see," he went on deprecatingly, urged to speech by her air of stony disapproval, "we had a lake back of our house up there, an' we used to cut ice from it, an' one time Ma did send me for the mail, ac' I remember thinkin' that there might be a bear; an', anyhow," added Unde Eph, resentfully, "there ain't any sense in spoilin' a good story by learnin' out everythin' that didn't happen."

********* The Upwa ********

The Unruly

WHOLESO A tree of xv., 4. serious misundersta wrong are done by member, the tongue done through inacc the time a certain through three peor the last one may Often this is qui Some celebrity has s said he looked out a when he really looke

should be punish Exaggeration is a much harm. It a little or change a told, to make it mo wrong is not always tain little girl did, In making New Yes older member of the hers was to tell eve happened, and not mean." said the chil not going to tell any a shock of realization answered, "Yes, that answered, "Yes, tha A leading periodic lately, that as m

lately, that as mustories of outrages as this time of dreadful pressed, and those humane deeds be circ

If one never repetale or an evil one, go any further. Every to be very guarded and never help circujurious to another. evil rumor in a cer spread of a wrong certain man who we cent. There was no except that it seem planation of a certa

In the presence of one ought to be very very courageous a one's disapproval, by an expressive look, or With many people, ot dream of repeating their presence. If their presence. If such, many would l sorrow and suffering .-

. . The Gravity of Walter G. S

TEW persons attac portance to the co grippe. By the major is regarded as nothing bad cold, and no fur are taken to prevent i household or commun be observed in the c While the disease, it essarily fatal in young most invariably leaves tremely weak and de mind and body. It is the way for numerou resulting in pneumo gangrene of the lungs culosis.

The death rate is p in persons past 50 ye largely to complication 1913, there were 7,75 la grippe in the regin the United States whiproximately two-thirds tion; of this number, 70 per cent respectively.

70 per cent, were past Infection is direct fo and follows intimate person affected. The entrance to the body mouth and nasal pas mouth and nasal pas finds a very suitable a ment and toxin prod present in great nu sputum, and during of

The Upward Look

The Unruly Member

A WHOLESOME tongue is a tree of life." - Proverbs xv., 4.

It is amazing how much mischief,

serious misunderstanding, and great wrong are done by this very small member, the tongue. Much harm is done through inaccuracy. Notice by the time a certain report has passed through three people, how different the last one may be from the first. Often this is quite unintentional. Some celebrity has said that if a child said he looked out of a right window when he really looked out of the left, he should be punished.

Exaggeration is also another cause if much harm. It is so easy to add little or change a little to the story told, to make it more effective. This told, to make it more effective. This wrong is not always regarded as a certain little girl did, but it should be. In making New Year resolutions, an older member of the family said one of hers was to tell overything just as it happened, and not exaggerate. "You mean," said the child, "that you are not going to tell any more here." With a shock of realization, the older one answered, "Yes, that is it."

A leading periodical has suggested A teaming periodical has suggested lately, that as much as possible, stories of outrages and wrong done at this time of dreadful warfare be sup-pressed, and those of kindly and humane deeds be circulated. that

humane deeds be circulated.
If one never repeated an unkind
tale or an evil one, they would never
go any further. Every Christian ought
to be very guarded in this respect,
and never help circulate anything injurious to another. Very lately an
jurious to another. Very lately an
spread of in a certain village was
gread of in a certain village was
certain man who was cement of the
certain man who was cement of the
certain was reasoned for this cent. There was no ground for this, except that it seemed the only explanation of a certain deed.

In the presence of harmful talk, one ought to be very determined and very courageous about expressing one ought to be very determined and very courageous about expressing one's disapproval, by a decided word, an expressive look, or meaning silence. With many people, others would never dream of repeatings any idle gossip in their presence. If there were more such, many would be spared great sorrow and suffering.—I. H. N.

The Gravity of "Grippe"

Walter G. Sackett FEW persons attach sufficient importance to the contagious nature and seriousness of influenza or la By the majority of people it regarded as nothing more than a ad cold, and no further precautions bad cold, and no further precautions are taken to prevent its spread in the louschold or community that would be observed in the case of a cold. White the disease, itself, is not necessarily fatal in young people, it almost invariably leaves the patient extremely weak and depressed in both the work of the way to body. It frequently opens the way body. It frequently opens the way to be a support of the way to be a support o

The death rate is particularly high in persons past 50 years of age, due largely to complications. In the year 1913, there were 7,725 deaths from la grippe in the registration area of the United States which includes approximately two-thirds of the population; of this number, 5,298, or nearly 70 per cent, were past 50.

Infection is direct for the most part and the person of th The death rate is particularly high

ing and speaking the germs are ejected into the air. Persons sufferejected into the air. Persons suffer-ing with the disease, and during con-valescence as well, should remember this and protect the nose and mouth with a handkerchief while coughing or sneezing, in order to reduce the danger of infecting those with whom they are associated.—Colorado Experiment Station. Rececteces

OUR HOME CLUB ************

Letters from Old Members

OUSIN Nell," your plea for suggestions on solving the community problem is meeting with a hearty response. Your letter has already stirred up two of our old members, "Aunt Sue," from whom we have not heard for some months, and "Nephew Frank," who contributes to the Home Club quite frequently. No doubt the sugges-tions contained in these two letters will suggest ideas to other members. Perhaps, too, there are interested readers of the Home Club who would like to become members. If so, don't fail to send us a letter, and we will give all a hearty welcome.

"Sister Mac" has also dropped in this week, airing her views on the subject of thriftiness. What do our members think of this question? 4 4 4

A Suggestion for Cousin Nell

WAS interested in "Cousin Nell's" request for suggestions on rural recreation. A community tennis grounds, a general abhetic club, or something along this line might be recommended as a thelot of giring the young people of the community wholesome recreation the community wholesome recreation the work of the transparent of the transparent people of the transparent people of the transparent people of the people of the transparent people of the peop in most cases the trouble lies deeper. I don't believe that any normal young man goes to the hotely choice. They go there because they crave human companionship and the state of the hotely place they can find it. I do not of them would rather gather a home for a pleasant good time. The question is, how many homes are there in their community at which they would be welcome? My mind goes back to the stories.

there in their they would be welcome? they would be welcome? My mind goes back to the stories mother used to tell of the old pioneering days. She afways contended that they had more social life then than they had more social life then than they had more active the usual thing now. It was quite the usual thing for a group to gather together of an for a group to gather together of an evening, and go to some home in the community. No warning was given the hostess, and no warning was required. They were at liberty anywhere, to remove the stove out of the big kitchen in winter and indulge an a good old-fashioned dance. In summer a pionic could be arranged for the following week in ten minutes after church. No intricate programmes were necessary and everyone took their were necessary and everyone took their own basket. Then there were the barn raisings, the logging bees, and the

raisings, the logging bees, and the ossilizing parties.

"Cousin Nell," don't you think the trouble lies just here,—that social life in our rural communities has been allowed to decline. We don't see enough of each other in the country nowadays. Hasn't three been a tendency for the "caste system" to develop? In the old days one person was as good as another. Nowadays, the richer land owners have a social set of their own. The new people who come into our communities are not set of their own. The new people who come into our communities are not received as they used to be. In short, we have become into self-centred. A wholesome democratic community life. "Cousin Nell," is the kind that they had in the good o'd days, and if we coule, bring it back days, and if we coule, bring it back the to-day, it would solve your problem.—"Nephew Frank."



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The Banwell-Hoxle Wire Fence Co. Winnipag, Man.

WHEN Farm and Dairy comes in I first turn to read "Our Home Club," and I must confess I always look for the writer's name bealways look for the writer's name be-fore reading the article written, to find out if some of our older members have returned. Where is "Aunt Faithie?" I will not nor do I soon wish to forget her. In reference to "Cousin Neil's" re-quest for suggestions re recreations

for the young people from our own experience, let me suggest that we make home and home surroundings so at-tractive that there will be no desire on the young people's part to congra-gate on the village street corners as mammer nor sit around the village

summer nor sit around the rings.

Give the young folk a piece of land near the home. Let the boys have time to level it down. Don't be stingy with the length and breath of it—give them some lawn seed, then provide them with croquet set, tennis set, or whatever game they prefer. Or tell them, "There's the ground, here's the cault to get your games," and see how quickly they will "eye at it." Encourage them to invice their neighbor friends in to take part in games. Maybe some of those young folk who hang around the village corners would be glad to come in and take part. My dear young folks have all grown up and nearly all left the home nest, but none of them hung around street corners. Hired men? Yes, sak them to take part in games too. They them some lawn seed, then provide

to take part in games too. They doubtless are feeling lonely. Invite them to take part and see how quick-ly they will remember they have a second-best suit upstairs they can put on in evenings so they can be like the

I fully agree with "Doctor's Wife" that the farmer has an important part to play through this war. The eyes of the world will soon be turned to him for provisions, as eagerly as they look to the manufacturer for clothing and ammunition.

But my letter may be too long al-ready, so I will close.—"Aunt Sue." . . .

The Question of Thrift

HE subjects discussed by Home members recently been many and varied. The subbeen many and varied. Lie sub-ject of thrift, so far as I have noticed, has not been dealt with. I would like to know if Home Club readers think the boys and girls of to-day are re-ceiving the home training in thriftiness to the extent that they did, say a score of years ago. There is so a score of years ago. There is so much written nowadays about the high cost of living, that we are led to wonder at times if some of this cost might not be reduced by making the most of the small things. I have in mind particularly the waste that is allowed in some homes around the family board. Here is an illustra-

A little girl of five years had finish-A little gur of five years had minsh-ed her dinner, when her eye was at-tracted to the meat plate, and she called for a piece of chicken. In-stead of denying her, or serving her with but a small portion, the mother gave the child a helping that would have been more than enough were she commencing the meal. It was ted, of course. Even then the out commencing the meal. It was wasted, of course. Even then the little girl was not satisfied, and called for a piece of pie. She fished a few pieces of fruit from the pastry and called for another piece. We can imagine how much that child would waste at a meal. And yet her parents were hard-working people, evidently having difficulty to make ends meet. A child receiving such training, or

rather lack of training, in this one particular could not be expected to grow up thrifty and careful of the small things. We must remember that "it's the little things in life that

count." I think, also, that too often people have a false idea about the question of thrift. Thriftiness and niggardliness are too often confused, and people fear that if they seek to make the most of the small things that they will be considered miserly It seems to me that we should en deavor to get a true conception of the meaning of thriftiness, and then seek eek to train ourselves and our milies "in the way we should go." "Sister Mac." ...

Starting and Care of a Garden

Alice A. Ferguson, York Co., Ont. EMOVE all rubbish and clean up REMOVE all rubbish and ctean up the yard or place to be used. Select a plot in a sunsy location. Do not spoil the beauty of a green lawn by placing a garden in the middle of it. Let the boundary of the yard or the fence, form a background, and place the garden in front, or place the garden near the wall

the house, taking care to avoid the

dripping from the roof. dripping from the roof.

Examine the soil. A clay soil is too heavy, cold and bakes. A sandy soil is too loose, contains too little of the food elements, and does not retain moisture. The best garden soil is sand loam. To improve the clay soil add sand to locate the clay soil add sand to locate. soil, add sand to loosen and lime to sweeten it. To improve sandy soil add a little clay, which will hold the particles of sand together. To improve clay or sand soil add at least two inches of humus in the form of well rotted manure. Humus contains the food element necessary for plant

Do not make the garden plot too large. Long, narrow beds are best, and easiest to cultivate. Spade or plow from eight to 12 inches deep. Avoid turning the soil bottom side up, as this will leave the poor soil up, as this will leave the poor on top and the best soil at the botter of the spade cut. Turn the soil to of the spade cut. Turn the soil so that the top will lie at an angle of 60 degrees to the original surface. Break all lumps; spade, rake and rake again. Make the soil fine. The finer the soil the more quickly the young plants can get food.

life, and retains moisture.

Make the bed shapely, a little higher in the centre than at the edges, to give proper drainage. Use climbing give proper drainage. Use climbing or tall plants for a background, and grade down to the shortest variety in

Plant in rows, making the rows run north and south if possible, so that every row will have the morning sun on one side and the afternoon sun on the other side. The distance be-tween the rows depends upon the kind of plants to be grown. Use stakes and line for measuring. Measure carefully for the first row. Place stakes and stretch the line. Be sure it is straight, as all the other rows will depend upon this one.

Plant seed at a depth of "two to four times the diameter of the seed, the long way." Cover the seed, and firm the soil by pressing with the hand or board or by rolling.

Begin thinning out the plants when they have two pairs of leaves. Re-member that each plant must have plenty of room to grow. Weed often and work the soil. Keep a dry mulch over the surface of the garden. The dust mulch conserves moisture. Don't draw the soil in ridges about the plant when cultivating. Level cul-tivation is considered best.

tivation is considered best.

In watering the garden, soak the soil to a depth of four inches. A mere sprinkling of the surface does more harm than good. Sprinkle late in the afternoon or evening to avoid the direct heat of the sun's rays on the late. the plants.

Transplant on a moist or cloudy day and water roots thoroughly. Cover to protect them from the sun during the day, but uncover at night that the plants may have air.



The Poppy Land Limited Express The first train leaves at six p.m

For the land where the poppy blows; The mother dear is the engineer, And the passenger laughs and crows.

The palace car is the mother's arm; The whistle, a low, sweet strain, The passenger winks and nods and blinks, And goes to sleep in the train.

At eight p.m. the next train starts For the poppy land afar,



"Tabby" and "Teddy" Photo taken in Wentworth Co., Ont., at the home of D. Davidson.

The summons clear falls on the ear "All aboard for the sleeping car."

But what is the fare to poppy land? I hope it is not too dear; The fare is this, a hug and a kiss, And it's paid to the engineer!

So I ask of Him who children took On His knee in kindness great,
"Take charge, I pray, of the trains
each day,
That leave at six and eight.

Keep watch of the passengers," thus I pray, "For to me they are very dear,

And special ward, O gracious Lord, O'er the gentle engineer."

. . . The Wet Day

KITTY was very cross because it was a wet day and she couldn't go out. She was a little girl who grumbled at rainy weather. She said she couldn't see any use in it, except to stop all fun, and she wished there was no such thing! And so she rolled herself up in a ball on the sofa, and made things wetter than ever by crying bitterly over the state of affairs. But if Kitty had looked out of the window she might have noticed how

the flowers in her garden were crying with joy over the rain—great big fat tears of delight, because rain makes the flowers grow, and washes all the dust off their tender petals.

And things were awfully lively over And things were awardly lively over at the pond, too; the ducks were as jolly as possible over the weather. "Fine weather for ducks!" they were all quacking.

Father had just come in, too, and I haven't a shadow of doubt what the umbrella thought about the rain. "Lovely!" it sighed, "so refreshing! I'm wet through to my very wires, just as I was afraid I should rust to death watching the walkingstick go so

death watching the walkingstick go so gaily off for a walk every single dry day for the last fortnight. How I wish it would rain every day! So, you see, it's only fair that those who like wet weather should have it sometimes. It would be selfish to want fine weather always, wouldn't it??

Think of this, chicks; next time there's a wet day

Every kind of weather is liked by That Dog "Tiz" By E. V. Benedict

H E was just a plain yellow dox, without any pedigree, but he was our dog, and we thought all the world of him just the same, well a neighbor E was just a plain yellow dog,

As to his name, well a neighbor had promised us one, and when we called for it he threw open the woodshed door and pointing to where a half-dozen little beauties were play-ing about said, while a broad grin

lit up his face:
"Well, here 'ti
take your pick!" 'tis, boys! You can

That was in the halcyon days of youth, when brother Lige and I were just school kids, and like most other boys of our age, not content without a dog. We thought we must have one at any cost. Why, at that time we would have given all our earthly possessions, consisting of a dollar watch, two jack-knives, a fish-hook or two and a gimlet, just for a dog of most any age, size, or color, even if 'twas nothing but a pup.

Time and again we had been promised a dog only to find that promises like pie crust were easily broken. like pie crust were easily broken. There was always one excuse or another. It is so easy to invent excuses
for broken promises, wrong as it may
be. So the winter wore itself awaand melted into spring. The April
showers had brought the May flowers,
in abundance. The little dog-house
that we had taken such exits. that we had taken such pains to build snug and warm for the winter months was still empty. All winter it had been hidden from sight under the great white drift. Now its little door stood invitingly open, letting in the sunshine, while the south winds played for it, but no little doggie came in or out; there was none to take possession.

Then one bright morning in Ma when the blossoms were falling like snow from the fruit trees, a very pleasant surprise came - something unexpected. We were busy about our chores as usual when dad fairly gave us a thrill by saying:

"Now, boys, you can have that dog you've been teasing me so long about."



"Jock" at Attention.

ils collie is the property of Mr. Chas. A
tink, Oxford Co., Oni., who values highly
conine friend. You would almost
juk that Jock was "posing" for the
occasion, wouldn't your

"Oh, dad! Is that so?" we both cried in chorus as we danced around him for very joy. "Do tell us all

about it."
"Well," said dad in reply, "I've
only been waitine till the little fellow
was old enough to take from his
mammy. here is a half-dozen in the
bunch, and neighbor Brown says you
boys can have the first pick. So you

better call on your way home from school and bring him with you."

We did of course, and the strang-est part of it all was that we should out the homeliest one of the whole bunch

And, lugging him home in a bas-ket, we both shouted gleefully as we turned him loose, "Here 'tis, dad! Here 'tis!"—Our Dumb Animals.

***** **AMUSI** Conducted by 8

April 15, 16

20000000000 A Bird O YOU know do, you will the month birds come home

guests arrive h the bird on in that way partn Bird

Questions relati be pinned about will prove an in for an hour or so. with card and p write the answer. Some of the follo-be used: (1) There's a b if he flies fast or

consessor.

BELIEVE & because it find no no nake my cou to make my coo I believe the that I should and joy into the I believe the free air and su are intended for work with Now the seed a have some work I believe in But most of all stories of plant of wind and rafer I believe the beautiful and d

generasen (2) There is on though he can't s

(3) And one wi held by a string.— (4) There is or one letter is spelle (5) There's an harvest would use (6) And one yo you will.—Ans., 6 (7) What bird i oft hung of old.—
(8) What bird sky in its dress .-(9) There is on London the pride. (10) What bird an island bears,—
(11) Which bir

nd silly.—Ans.,
(12) And which
unish poor Billy Will. (13) Which bir works at his trade (14) And which flags are made.—. (15) One, we're heaven's gate sing (16) And there the new

(17) What bird eating or drinkin (18) Guess all as Minerva's own

This is a good
"Hunti" each gubasket, either of control of these make pretiparty. White be

Conducted by MARION DALLAS

A Bird Carnival

D o YOU know the birds? If you do, you will know that April is the month when all the little birds come home to make their nests

o make their nests and you will real-ize that a "Bird Carnival" can be made one of the prettiest and most delightful of par-Decorate the in-

vitations with birds, two of the same kind, one for

same kind, one for a lady and the other to be sent to a gentleman. When the greatenan with the bird on their invitation, so in that way partners are easily found. Bird Puzzle Questions relating to birds should be pinned about the room. These will prove an interesting diversion for an hour or so. Provide each guest with eard and pencil, and let them write the answers to the question. Some of the following questions could be used:

There's a bird whose name tells he flies fast or slow .- Ans., Swift.

AMUSEMENTS cggs, and they are hidden in all sort of places. At a given signal, the "Hunt" begins, and the one who hads the most is the winner.

Jack Horner Pie The supper table is always an important feature. For this party the table decorations could be a "Jack Horner Pie." This is a large pie containing small favors. It is made containing small favors. It is made by covering the largest tin with or-dinary manila paper. To make it dinary manila paper. To make it four and twenty black bit of the four and twenty black bit of the or top, instead of inside, as the old rhyme used to say. The birds are made of black crepe paper, twisted to resemble little birds with outstretched wings. They are fastened on wire hair pins that can be stack through the top of the pie so they will stand upright.

In Shakespeare's Honor

In Shakespeare's Honor
April the 23rd is generally conceded
to be the bi thday of the illustrous
bard of Avon. The day affords an opportunity to the alert hostess to entertain in his honor. Purple and gold
were the colors the poet was especially
and of and no twohingtion makes fond of, and no combination more effective decorations. Postals more effective decorations. Postais may be obtained with pictures of Stratford, and these may be used as place cards or for puzzle games, or matching partners. Shakespeare Romance

Write the following questions on slips of paper and pin them around the room. Every answer is the title of one of Shakespeare's plays:

THE STATE OF THE S

A Country Girl's Creed By Flora Rutlock

BELIEVE that the country is a better place for me to jiv, than the city, because it is cleaner, quieter and more beautiful. I believe that I can mid an onbite work than to use all the knowledge and aidli I can obtain in the country of the control of the control of the country of the control of the control

and the second s

(2) There is one that tells tales al-

(2) There is one that tells tales although be can't sing.—Ans., Tattler.
(3) And one below thigh, but is bid by a string.—An the bid by a string.
(5) There's another a farmer in harvest would use.—Ans., Thrasher.
(6) And one you can easily fool if you will.—Ans., Gull.
(7) What bird in the chimney place of thung of old.—Ans., Crane.
(8) What bird wears a bit of the sky in its dress.—Ans., When.
(10) What bird the same name as an island bears.—Ans., Canary.
(11) Which bird is called foolish and silly.—Ans., Loon.

(12) And which, always wanting to unish poor Billy.—Ans., Whip-poor-

Will.

(13) Which bird is an artizan and works at his trade.—Ans., Weaver.

(14) And which is the stuff of which flags are made.—Ans. Bunting.

(15) One, we're told by the poet at heaven's gate sings.—Ans., Lark.

(16) And there's one which in Holland the new baby brings.—Ans., Stork.

(17) What bird have we with us in eating or drinking.—Ans., Swallow.
(18) Guess all these, you're as wise as Minerva's own bird.—Owl.

Hunting For Eggs This is a good game. For the "Hunt" each guest is given a small basket, either of crope paper or straw. These make pretty souvenirs of the party. White beans can be used for

(1) Who were the lovers? — Ans., Romeo and Juliet.
(2) Where did they meet? — Ans.,

(2) Where did they meet an analytic and Hamilet.
(3) What answer did she make to his proposal?—Ana., As You Like It.
(4) What answer did she make to his proposal?—Ana., As Hidsunmer Night Dream.
(5) From Som did he buy the ring?—Ana., Analoy and Geopatra.
(7) Who were best man and bridsmaid?—Ana., Analoy and Geopatra.
(7) Who were the unders?—Ana.

maid?—Ans., Antony and Cleopatra.
(7) Who were the ushers?—Ans.,
Two Gentlemen of Verons.—
(8) Who entertained them on their
wedding trip?—Ans., The Merry
Wives of Windsor.
(9) Who was the chef?—Ans.,

(10) What was their first quarrel bout? — Ans., Much Ado About about? — Ans., Much Ado About Nothing. (11) What was her disposition like?

Ans., The Tempest.
(12) What was his chief occupation after marriage?—Ans., Taming the

(13) What Roman General effected (16) What koman General effected a reconciliation?—Ans., Julius Cesar. (14) What did the world say?—Ans., All's Well that Ends Well.

The use of colored cotton instead of

The use of colored cetton instead of white for tacking white material makes it much easier to follow the seams accurately on the machine. The tackings are also more easily and quickly removed.

The more by that gets in the life of the farm wife, the better will be the farm home and its life, and the happier the husband and children.



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You remember their fragrance and want more and better once this year. This you are bure to get, if you order from our, true to color, perfect germinating seed. All 1914 production and raised on our own grounds. Send postal NOW, for list of latest Send postal NOW, for list of latest to the colors and the competition of the control of the colors shortly on the colors of the

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that been produced by us, and one which we want you to test. It is acknowledged, by all who have tasted the fruit, to be the finest in flavor they have eaten.

have eaten.

It is a great drought register, a
heavy yielder and does not revert to
'type." You want to try a packet, so
drop a postal RIGHT AWAY, and for
particulars of premium offer, to
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BELLEVILLE, ONT.

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1 No. 1 Melotte Cream Separator, new, for sale. Cost \$75.00. Will sell for \$60.00 or next best offer. 1 Fleury No. 1 Grinder, second-hand, for sale. Cor; \$35.00. Will sell for

1 8 h.p. Gasoline Engine. Cost \$330.00. Will sell for \$125.00 or next best offer. 1 Outling Box (Bamford & Son, I land), with Dust Extractor and Bk Attachments. Cost \$300.00. Will for \$150.00 or next best offer. Apply

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CREAM

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Standard Hand Separator Oil

is made expressly for lubricating the delicate mechanism of cream separators. If you trust to ordinary farm oils you'll have trouble sooner or later; and if a better separator oil than Standard could be madewe would make it.

Dealers Everywhere

The IMPERIAL OIL COMPANY Limited



CREAM WANTED

Guelph Creamery Co., Guelph, Ont.

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

Zeeseseseseseseseses Maker's Control of Quaity Alex. H. Constable, Victoria Co., Ont.

Alex. H. Constable, Victoria Co., Ont.
TRIINK it is possible for makers
to control the quality of milk received into their factories. I would sooner lose my position and a certain amount of trade, than have the name of making inferior cheese through handling dirty milk. If any other cheesemaker caree to take in milt that I reject, he is welcome to it and the name he gets. I would clean, whole-come milk, than a dozen with dirty, inferior milk. In the first place you are sure of the name of a good cheesemaker, and in the second place you are not sure of anything. A good name is better than riches; to me anyway.

name is better than frences, as anyway.

Here is one of my experiences in handling dirty milk. I had had some trouble with a man sending inferior milk. First tried writing to him, but this did not make much difference. Then I threatened to make him keep the milk at home, and now that man sends as clean a can of milk as any sends as clean a can of milk as any that comes into the factory. That man had the option of sending his milk to another cheese factory or to

milk to another choese factory or to a creamery, but whether they would have accepted it is not for me to say. I believe that until makers cooper-ate to reject all dirty milk, that it will still exist, and that the great dairy industry of Canada will never be what we desire it to be. If I have to take in any old stuff that all the lang, then here is I said before, "A good name is better than riches."

Why a Sodiment Test*

F. Herny, Chief Duiry Instructor for W. Ontario
The presence of sediment in milk indicates careless methods in milking, and, therefore, the probability is, that the milk is seeded with a large number of undesirable organisms. organisms.

organisms.

2. The sediment test is a simple method of accumulating in one spot where it may be seen, the amount of sediment contained in a pint of milk, and thus enable the operator to judge approximately, from the appearance of the "disk," the total sediment in the cone of milks. the can of milk.

the can of milk.

3. If the milk is not sufficiently cooled this condition will usually be indicated by the appearance of little clots of dried cream on the "disk." This means loss of cheese-making ma-

4. Used in connection with the curd test it makes a combination more

curd test it makes a combination more effective than the curd test alone.

5. It places the responsibility on the individual patron and leaves lit-tle chance for argument on his part.

6. The patrons, with few excep-ticas, take a reasonable view of the test as it is something they can see and understand. They look upon it and understand. They look upon it as a test that indicates not only the better methods of the careful patron but reveals the shortcomings of his careless neighbor. Personal pride in the clean, satisfactory condition of the milk, when delivered, is awakened.

7. Good judgment must be exercis-

7. Good judgment must be exercised by the operator in making use of the set, offensive comments withheld and an effort made to get the patron to understand that, all that is intended, is to point out the facts, with the desire of getting his cooperation. Simply let the appearance of the

*Summary of an address at the Eastern Ontario Dairymen's Convention.

"disk" do most of the talking at first, as it will eventually appeal to the pation from a logical standpoint.

8. Improvements have been secured through cooling of the milk, the installation of cool curing rooms, the pasteurization of whey, in better methods of manufacture and in more anitary tectories. The milk sediment of the cooling of the milk sediment of the cooling of the

Our ideal is, "Clean milk," "Well cooled milk" and "Every cheese a fancy cheese."

Fifteen Years by Test

Fifteen Years by Test

J. C., Maker, Oxford Co., Ont.

List have paid by test for the past
15 years and I think it is the
done. One reason, I believe, that it
has lost favor where it has been tried,
is that the work has not been done
properly. I know of one or two cases
where the work was not done at all.
One or two tests were made and an
average taken from that. One cannot work on that principle long before



For Better Milk.

This contrivance covers a flowing spring where milk is kept on hot nights and over Sunday. It also protects the cans from rain water. Photo in Hastings Co., Ont. the patrons become suspicious and lose confidence.

The reason my patrons adopted this system was because they thought the proper way; at least enough of the proper way; at least enough of them thought so to carry the vote. The reason some oppose paying by test is, I believe, because they do not think it is fair unless you test both the fat and the solids. Others think the Babceck won't tell the right per cent of fat in the milk and they say

cent of fat in the milk and they say our authorities are not unanimous on the point by a long way.

I believe the patrons take better care of the milk when it is paid for by test, and they are not so apit to water or skim the milk. The big reason that factories are alow to adopt this system is, as I said before, on account of the vork not being properly desse And let me bell you a secret.

Our 1 get the best resume disinterces the unless you have some disinterested party to do the work. And another party to do the work. And another secret in that if you have a lot of god patrons, whose milk tests low and the can reach some other factory, you will lose every one of them and probable lose half of what you make. A make is in a pretty tight corner when he is trying to pay by test all alone.

As we acquit ourselves at this crisis, so will be our prosperity and pride is the years to come.



Swiss Cows in

The Rural Pub Limite HE annual meeti

Publishing (
which publis

Dairy, was held in th the company, Peterb Reports spite of war condition ed during the latter p the receipts of the cor greater during 1914 to previous year in the tory. The circulation Dairy also had incresyear to over 19,000. new record.

A number of improv and Dairy were decide be carried into effect ing year. The followere elected: Preside were elected: Preside Lantyne, Stratford; 1st G. A. Gillespie, M. L. Managing Director Treasurer, H. B. Cov Directors: J. R. Dar Elgin; A. C. Hallman, Scott, Exeter; Henry Manilla; Harold Jones J. Peynolds, Solina A. I. Reynolds, Solina

A Cheap Sap Bo F. Whiteside, Victo WOULD like to m marks with regard ing house of Mr. 1 ed in the March 25th and Dairy. Such a back to us old timer troughs, long cedar gouges and two or thr on a pole in a rude st I admire economy i lumber and it has occu one might build a sap shed more economica Payne has done. If were built just out of the wind would blow

would dry the wood my ly. The wood should August or September, shed were also built longer, allowing shelte the fireman and the fu allowed to come under the remainder of the er be covered with inch metal cover, which w cheaper than the meth Mr. Payne. As the Mr. Payne. As the gathering sap the bigs time, if he has a rel or boils deep enough to he does not require a which to sit.

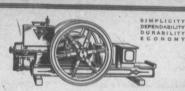
Manure to Apply (Continued from

and clover once in the results for 10 years a Manure, four tons p



It's a pure, white, clean powder-doesn

Sold in Large 10c. At all Sifter Top Tins



Alpha Gas Engines are ideal for farm use

WHILE THE "ALPHA" IS A good engine for any purpose, it is an ideal engine for farm use because there is no "mystery" either in its construction or

IT IS SO SIMPLE THAT A boy can run it. Either gaso-line or kerosene can be used, and it starts on the magneto and does not stop until you want it to.

THE "ALPHA" WORKS well and wears well. It is made from the very best ma-terial and its workmanship and design are high-grade in every

JUST THINK OF THE WORK an "Alpha" will do for you!

SAW YOUR WOOD, CUT your fodder, grind your corn, pump your water, run your separator or your washing ma-chine, and do it better than you can do it any other way.

IT HAS NO BATTERIES TO fuss with or get run down or out of order.

ALL AN "ALPHA" NEEDS is to give it a supply of gaso-line or kerosene, oil it up and give it a pull, and away it goes and will run as long as you want it to.

AN "ALPHA" WOULD BE A big labor-saver on your farm, and a money-maker, too.

Each furnished in sta tionary, semi-portable, or pertable style, and with either hopper or tank cooled cylinder. Send for catalogue

DE LAVAL DAIRY SUPPLY CO., Ltd.

Largest Manufacturers of Dairy Supplies in Canada. Sole distributors in Canada of the famous De Laval Cream Separators. Manufacturers of ideal Green Feed Silos. Catalogues of any of our lines mailed upon request. MONTREAL PETERBORO

WINNIPEG VANCOUVER

Swiss Cows in the Stable of the Dairy Institute at Liebefeld. -Photo courtesy J. A. Ruddick

a large city, manure may profitably be applied in larger amounts."

The average member of a coopera-

tive association expects too much pro-fit from his society. Greater profits

must come from economies effected from cooperation, not so much from higher prices realized. The profits should go to those who effect these economies.—F. C. Hart, Cooperation

If PAGE FENCE

were sold like "ordin-

ary" fence, we'd have

to charge you more.

And even then it would

still be worth a great

Because PAGE FENCE outwears any" ordinary"

fence. Many miles of

PAGE FENCE have

been up for 20 years. Much of it still looks

good for 20 years more.

deal more.

Branch, Toronto.

The Rural Publishing Co.,
Limited

HE annual meeting of The Rural
Publishing Company, Etd.,
which publishes Farm and
sirv, was beld in the head office of
company, Peterboro, March 30.
georts presented showed that in
during the latter part of last year
during the latter part of last year
exceipts of the company's hissay. The circulation of Farm and
shay also had increased during the
say The circulation of Farm and
shay also had increased during the
say to be a supply of the company's hissay. The circulation of Farm and
shay also had increased during the
say to be a supply eight tons per acre every
eight years. Where manure is cheap
we record.
A number of improvements in Farm
and the prices of products are high,
as in the case of a market garden near THE annual meeting of The Rural Publishing Company, Ltd., which publishes Farm and Dairy, was held in the head office of the company, Peterboro, March 30. Reports presented showed that in spite of war conditions which prevailed during the latter part of last year the receipts of the company had been the receipts of the company had been greater during 1914 than during any previous year in the company's his-tory. The circulation of Farm and Dairy also had increased during the year to over 19;000, establishing a new record.

new record.

A number of improvements in Farm and Dairy were decided upon and vill be carried into effect during the coming year. The following directors were elected: President, W. W. Ballantine, Stratford; Ist Vice-President, G. A. Gillespie, M. L. A., Peterboro; Managing Director and Secretary-Treasurer, H. B. Cowan, Peterboro; Directors: J. R. Dargayet, M. L. A., Elgin; A. C. Hallman, Breslau; J. H. Scott. Exeter; Henry Ghepdinning, Manilla; Harold Jones, Prescott; and A. J. Reynolds, Solina. A. J. Reynolds, Solina.

A Cheap Sap Boiling House F. Whiteside, Victoria Co., Ont.

WOULD like to make a few re-WOULD like to make a few remarks with regard to the sap boiling house of Mr. Payne, illustrated in the March 26th issue of Farm and Dairy. Such a scene brings back to us old timers the pine sap troughs, long cedar spines, tapping gouges and two or three kettles hung

on a pole in a rude stone arch.

I admire economy in time and in lumber and it has occurred to me that one might build a sap house and wood shed more economically than Mr. Payne has done. If the woodshed were built just out of the bush where the wind would blow through, it would dry the wood when more quickly. The wood should be gathered in the wind would blow through, it would dry the wood should be gathered in high the wood should be gathered in the wood should be gathered in the wood should be gathered in the wood should be gathered to with inch boards or a metal core within the boards or a metal core within the boards or a metal core within the beautiful to be gathered to gather gathered to gathe one might build a sap house and wood he does not require a warm house in which to sit.

Manure to Apply per Acre

(Continued from page 4) and clover once in three years. The results for 10 years are as follows: Manure, four tons per acre every

AGE FENCES WEAR R

Always Worth More

You get PAGE FENCE at the lowest price for which high-grade fence can be sold. Because you deal DIRECT with PAGE. You cut out the middlemen's profits -and get the benefit of highest quality at lowest cost.

MADE IN CANADA

HEAVY FENCE Spacing of horizontals. ALI, FULL NO. 9 GA/GE.

SPECIAL PERCE.

3. 10 pt and bottom. Balance No. 13. Upright 8
15-bar. 68-inch. 39-61 5-17 Gate
2-bar. 68-inch. 31 1-14. Gate
2-bar. 68-inch. 31 1-14. Gate
3-15. Gate
3-16. G

When you buy PAGE FENCE you buy LIFE-TIME Service. don't have to buy new fencing every few Yet PAGE FENCE costs but a trifle more than the "cheapest" kind of fence. And it outlasts such "cheap" fence two to one.

If you want Lifetime Service—the best fence at the lowest price—and full FENCE-VALUE for your money—mail your next fence order to PAGE. Enclose cash, cheque, money or express order or bank draft. Get IMMEDIATE SHIPMENT of Canada's FIRST and FINEST Fence—FREIGHT PAID on shipments of \$10 or over.

PAGE WIRE FENCE COMPANY, LIMITED (Dept. 12) 1137 King Street West, TORONTO 87 Church Street, WALKERVILLE Write for FREE copy of big PAGE General Merchandise Catalogue.

April 15, 1915

Sore Shore

HE sore shoulde

majority of far not been worked durand their shoulders be soft. They sweat sweat become mixed

the shoulders; the

this mixture, irritation result is sore and shoulders, we estima with sore shoulders, willing, is worth 25 seeding time than

suffering such discon We at one time to this difficulty by was water twice a day, salt and water. It hel cure. We stumbled o inadvertently. One

ped the horses a coup fore spring work beg ed even sorer should

all. The cause of so

removed—the mixed

that accumulates unde still bathe the shoul caution, but the national trouble is removed.

I take second place my condemnation of clipping horses in the

it, however, as a mere before starting the sp horses work better an

Mrs. Angus Fleming,

WOULD like to Dairy readers above have made in

spring that has given

have laid a concrete

Our barnyard has a most other barnyards

in the spring of the ye

ning with mud and s

could not come from without leaving track

house to the barn.

Concre

Farm Side

HARDY ALFALFA

Grimm Alfalfa Seed Grown in Alberta. The hardiest known Alfalfa. Practically no danger of winter killing with this seed. Write for our book on Alfalfa and prices and sample.

SOUTHERN ALBERTA LAND CO., Ltd., SUFFIELD, ALBERTA W. A. McGREGOR, Superintendent

Progressive Jones says : .

"Grow Bigger Crops During the War"

THIS is the Canadian farmer's golden harvest-time. With wheat selling over the dollar mark, and other grains and vegetables bringing war-time prices, farmers should do their utmost to grow as big crops as possible this year. This, friends, is the time of all times to enrich your soil with



It is the sure way to make your soil

yield bumper crops and make more

money for you. By using the proper fer-

tilizers you can greatly increase your

yield at no extra cost of labor or seed.

Would it not pay you to grow the

DAVIES' **Fertilizers**

If you've been in the habit of using Davies' Fertilizers, keep on using them. They are excellent fertilizers. It's merely a matter of choice between Harab and Davies', The Ontario Fertilizers Limited supply both.

maximum from your soil? If Harab Fertilizers were not exceptionally profitable to use, I don't think there would be such a great and growing demand for them, do you? But perhaps you would like to read the new fertilizer booklet that describes them fully. If so, just drop a card to

The Ontario Fertilizers Limited, and say "Please send me your new Harab Fertilizer booklet." They have promised me to send my friends this booklet promptly without charge.

Yours for bumper outs,

Progressive Jones



The Ontario Fertilizers Limited, West Toronto, Canada

Field Root and Vegetable Seed Situation

Tield Koot and Vegetable Seed Situ

To the three months after the outbreak of war much anxiety was
to supplies of field, root and vegetable
seeds that come printiplally from the
warring countries of Europe. The
field officers of the Seed Branuty of
voted nucleif of treating a supply
of Canadian-grown seed for pulo
planting. It was advisable in the
sutumn to select and specially store
any biennial roots to be transplanted
this spring for seed production.
Fortunately the European seed crop
of 1913 was much above the average
for practically all kinds. Owing to b
previous shortage in supplies most

Ottawa. and climatic conditions in different parts of Canada are equally favorable.

The control of these seeds in quantity for commerce has been limited in Can-ada by the higher price of labor and because few farmers had experience with biomini seed crops. A few dozen or a few hundred sound shapely roots set out this spring may give valuable experienced as some good need. A balletin on field root and wegetable seed production may be had on application to the Publications Branch, Ottawa. — Seed Branch, Ottawa.

	Experimental Union Teef	Compar	Yield
EXPERIMENTS	VARIETIES	ative Value.	per Acre
Mangels (8 tests)	{ Fellow Leviathan (Ferry)	100	27.0 26.1 26.1
Sugar Beets (6 tests)	Bruce's Giant White Feeding	100 95	24.8 24.1
Swede Turnips (3 tests)	American Purple Top Bruce's Giant King Garton's Model	100	17.6 17.6 15.5
Fall Turnips (2 tests)	Sutton's Imperial Green Globe	100 92	27.7 26.9
Carrota (7 tests)	Bruce's Mammoth Intermediate Smooth White.	100	18.7 16.7
Fodder Corn (4 tests)	{ Late White Cap Yellow Dent	90	14.1 12.7 12.0
Grass Peas and Vetches	Hairy Vetches	100	7.7 5.7

Canadian seed houses had increased their orders by 50 per cent or more than their orders by 50 per cent or more than the covered full delivory. The accelerate deep of 1914 was also harvested in spite of war conditions and, although deliveries have been delayed and transportation excessive, most seed houses have received the greater part, if not all, of their contract orders. Canadian seed houses of good financial standing are thus in a position to carry over sufficient supplies to meet a very considerable part of 1916 requirements. Capadian seed houses had increased

Hairy'

.(4 te

Rape.

plies to meet a very considerable part of 1916 requirements.
Future Supolv Seacutative
The quantity of field root and vegetable seeds that may be produced in Europe during the present year or the next is highly speculative. This work requires much skilled labor, of which there must be a marked shortage for agricultural purposes. European Governmental direction of increased food production and relatively pean Governmental direction of in-creased food production and relatively high prices for food crops will doubt-less decrease the areas devided to these seed crops and to stock seed roots which would normally be irown this year for transplanting in 1916. Canadian farmers and gardeners should give this unstable situation

Points on Mangel Seeding

The tests with mangels at Guelph shows that the largest yield was secured when the mangels were seeded four inches apart in the row; but this is not the best distance to which to single the mangels. Handling them would then be too expensive. Ten inches apart ame institution indicate that two-chirds of a ton more per acre may be expected from level as compared with ridge cultivation. Home-grown seed is the best weel. It is also the cheapest as a supply of seed for home use can be produced very cheapty. Do not be too economical of the seed. With heavy seeding you are sure of a full stand, flies cannot play havo with it as in the case where there are a few plants here and there and the harrow may be used to a large extent in thinning. WEN tests with mangels at Guelph

A BRAHAM Schneir, a butter dealer in Montreal, appeared in court recently to answer a charge of selling one pound blocks of butter which were under weight, and was fined 80, or two months in jail. The information was laid by languetor Bouchard, of the Dairy and Cold Storage Commissioner's Staff. This is the first Dairy Industry Act, 1842.

A Choice of Varieties

	Experimental Union Teer	Compar	Yield
RIMENTS	VARIETIES	ative Value.	per Acre
le sta)	{ Yellow Leviathan (Ferry)	100	27.07 26.13 26.12
Beets	Bruce's Giant White Feeding	100 95	24.82 24.12
Turnips sts)	American Purple Top Bruce's Giant King Garton's Model	100	17.99 17.67 15.56
ufhips	f Sutton's Imperial Green Globe	100 92	27.77 26.95
a eta)	Bruce's Mammoth Intermediate Smooth White.	100	18.72 16.75
r Corn	Late White Cap Yellow Dent	90	14.17 12.72 12.00
Peas and tches sts)	Hairy Vetches	855	7.70 5.70 5.12
Vetches and nter Rye	Common Winter Rye	. 62	11.32 4.88
eta)	Japanese Paniele	100	8.70 7.23 6.09
Kale and bbage sta)	Sutton's Earliest Drumhead Cabbage Thousand Headed Kale Dirarf Essex Rape	. 83	20.62 14.99 10.81

Items of Interest

By way of supplementing the patriotism and production movement. the Ontario Department of Agriculture has issued bulletin 228, "Farm Cropa." prepared by Prof. C. A. Zavitz. The reading of this bulletin will assist in material improvement in quality as well as quantity of fare products in Ontario. Is may be also on application to the Department of Agriculture, Toronto.

The Gibraltar of the Canadian Farmstead

thring for all time, guarding the feedily profits of the Canadian tarner through shorters, in the control of th

Natco Everlasting Silo

nogn fictures winters and dryest summers. No drying out. No lib. No blowdowns-within a tailer silo with smaller dismeter can Convenient and attractive. A silo that you'll be proud of. Bet is in your province and for our valuable silo book. Ask in

National Fire Proofing Company of Canada, Ltd., Toronto, Ont

Construction Forms of old lumber, concrete foundations A similar form might

Sore Shoulders and their Prevention

JAS. ARMSTRONG, WELLINGTON CO., ONT.

HE sore shoulder season in the horse world is approaching. The majority of farm horses have not been worked during the winter, not been worked during the winter, and their shoulders are supposed to be soft. They sweat easily; dust and sweat become mixed in the hair over the shoulders; the collar rubs over this mixture, irritation is caused; the result is sore and sometimes raw shoulders, we estimate that a horse with sore shoulders, no matter how willing, is worth 25 per cent. less at seeding time than the horse not suffering such discomfort,

sufering such discomfort.

We at one time tried to overcome
this difficulty by washing with cold
water twice a day. Then we tried
slit and water. It helped, but did not
cure. We stumbled on the right cure
inadvertently. One spring we clipped the horses a couple of weeks before spring work began. We expected even sorer shoulders at,
all. The cause of sore shoulders at,
all. The cause of sore shoulders at all. The cause of sore shoulders was removed—the mixed dust and sweat that accumulates under the collar. We still bathe the shoulders as a pre-caution, but the main source of trouble is removed.

I take second place to no man in my condemnation of the practice of clipping horses in the fall. I regard it, however, as a merciful thing to do before starting the spring work. The horses work better and are more com-

fortable. I would not, however, clip their legs from the knee or the hock down. The lower limbs need more down. The lower limbs need more protection from spring mud. Also it is necessary to be ready to rug the horses when left standing, even if only for a few minutes.

Canadian Horses for Military Purposes

Purposes
(Continued from page 3)
with a buyer of the British army, who had been paying \$185 each for army remounts, but who was going to withremounts, but who was going to withremounts, but who was going to withremounts, but who was going to withthe week.
"He explain to do the next week.
"He explain to the control of the control
military purposes in Canada." and pointed out that the price of horses would naturally be increased by competition." Mr. Oliver, of Edmenton, Alta, asked why the farmers had been singled out for special restrictive legislation. Why not to nickle, which is just as much a necessity of war as horses and very much, more exclusive-

is just as much a necessity of war as horses and very much more exclusively a product of war than horses. No definite conclusions were arrived at as a result of the debate, the government re-affirming their interest in giving the farmer as good a market as possible and adhering to the previous declaration that the reasons leading to declaration that the reasons leading to any horse buyer wor of a confidential character that could not be disclosed. closed.

A Practical Method for Strengthening Foundation Posts Many otherwise good barns can hardly be considered safe because the wooden posts on which they rest bare started to decay at the base. Why not substitute concrete as in the litustration?

Concrete Work is Easy

item. The floors had to be replaced every few years. We had thought of cement, but it was not convenient to bring masons from town, and it never occurred to us that without experience we could lay cement floors ourselves. The time came when our plank floors had to be replaced again. Lumber was considerably higher than it had been on previous occasions. With many doubts and fears we decided to try our hand at concrete vork. The cement floor that we laid has

now been down seven years. It has given perfect satisfaction and is as good to-day as the day it was laid. Anyone who can lay plank can also

do concrete work. First we graded By Prederick O. Doon

OR the best part of a score of years

the best of the fertilizer made on
our farm was allowed to seep away of
through the cracks in the plant foor
of the stable and was lost so far as
production was concerned. The
crop production was concerned. The
one part ceremt to eight parts of
one part ceremt to eight parts of concrete mixed in the proportion of one part cement to eight parts of gravel. The method that we followed was to lay a piece of studding on edge three inches from the wall. The studding was four inches with the studding to the studding was four inches with the studies with the studies were studied with the studies were studied with the studies with edge three inches from the wall. The studding was four inches wide. We then filled in the three and one-half inches of concrete, and immediately finished, off the top with a half-inch of sand and cement mixed in the pro-portion of one to four. When the first three-foot stretch was done we moved three-foot stretch was done we moved the foot of the top to the continued across that the continued across that the continued across the first three was laid in the bottom first, and then was laid. built in against temporary moulds. Our conclusion is that no one need hesitate over concrete work because of lack of experience.

Concrete Work on the Farm

Farm Sidewalks

Mrs. Angus Fleming, Elgin Co., Ont. WOULD like to tell Farm and Dairy readers about a change that we have made in our yard this spring that has given me no end of satisfaction this last month or so. We have laid a concrete walk from the house to the barn.

Our barnyard has always been like most other barnyards in Elgin county in the spring of the year, that is, run-ning with mud and so dirty that one could not come from it to the house without leaving tracks behind them on the floors. Little as I like to do it,

on the floors. Little as I like to do it, I have always had to insist that the men and boys live in the kitchen during the muddy months of the year.

Now this is changed. Last fall the men ander concrete slabs two feet wide, four feet long, and four inches thick. The concrete was mixed with thick. The concrete was mixed with one part of cement, two parts of sharp sand, and four parts of gravel. First thing this spring these slabs were laid in the yard between the house and the barn, and the labor of keeping my house clean has decreased proportion-ately. The men are just as delighted with the new sidewalk as I am,

FOR SALE

Five head of excellent Ayrshires (Rer.), a mature cow, has milled over 50 lbs. and is a beauty, a 5yr.-old hefter, both and is a beauty, a 5yr.-old hefter, both imported bull. Also 2 excellent yearing heliters and the imported bull. Bull is 5 yrs. old, culet an excellent handler and sure stock getter. Will price very reasonable as

J. T. WARNOCK - MAYNOOTH, ONT.

Burnside Ayrshires Winners in the show ring and dairy ests. Animals of both soxes, Imported or anadian bred, for sale. Long Distance Phone in house. R. NESS HOWICK, QUE.

4 HOLSTEIN BULLS From 3 weeks to 11 mos. old. Sire, a son of Pontiac Korndyke. Dams, all but one have A. R. O. records, one 193 bs. at 2 yrs. 2 mos., others good. Priced right for immediate sale. Write

BRANT COUNTY . SCOTLAND, ONT.

CORN THAT WILL GROW

Money back if not satisfied Send for Price List J. O. DURE, RUTHVEN, Ont.

MISCELLANEOUS

LARGE

Improved Yorkshires Boars and Sows. from 8 weeks to 8 months old, sows in pig. Prices reasonable. Write

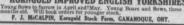
H. J. DAVIS - WOODSTOCK, ONT.

GUERNSEY BULLS A few choice young animals for sa Buff Orpington Eggs for hatchis

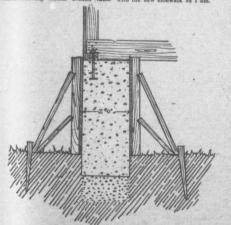
R. R. BLACK Highland View Dairy, Amherst, N. S

When writing to advertisers men

KORNGOLD IMPROVED ENGLISH YORKSHIRES







Construction of Forms for Laying Concrete Foundations

orms of old lumber, constructed as in this diagram, may be used in making nearest foundations for buildings that are being constructed without basements, similar form might be used in substituting concrete for rotting posts as in the fillustration above.

MARKET REVIEW AND FORECAST

TOBONTO, April 13.—The people of Canda laster, there was the profuse to allow as hadow, As the apring chem to the profuse to allow as hadow, As the apring chem to the profuse to allow the parties with the profuse to allow as the profuse to the pr

MILL FEEDS

The market tends to easiness. Bran is now quoted \$25 to \$27; shorts, \$28 to \$29; middlings, \$33 to \$34; feed our, \$37 to \$39, 4t Moutreal bran is quoted \$25; shorts, \$28; middlings, \$33 to \$34; moultie, \$35 to \$38.

SEEDS

SEEDS middlings, 83 to 594 mounts, es or \$30.

SEEDS Prices on red clover and simulthy have declined 60 to \$1. Queen and simulthy have declined 60 to \$1. Queen and simulthy have declined for \$1. Queen and \$1. Que EGGS AND POULTRY

tions.

Poultry quotations average as follows:
Poultry quotations average as follows:
Chickens, live, 12c; dressed, 17c to 20c;
fowl, live, 10c to 1c; dressed, 15c; ducks,
alive, 11c; dressed, 17c; turkeys, live, 14c;
dressed, 24c.

DAIRY PRODUCE

We intimated last week that some deal-

In a previous advertisement for Todd Cook, seed merchants of Stoutfville, Out, the price of No. 1 Red Clover was quoted at \$18.30 per pushel. This should have been \$13.50. Readers of FARM AND DAIRY will make note of this in looking up their Ad. in our issue of April 8th.

ers were looking for higher prices in hutcreated the prices in hutcreated in the prices in hutcreated in the prices in hutcreated in the prices in the prices in the
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Heavy weights seem to be in disfavor nowadays, and are not taken readily. However, all here found a market, and the last day was closely the seem of the grant of the last day was closely the grant leading to the last day was also been for higher levels. The week started strong, with advanced qualities, a fair demand from butchers

proce a valuable here after a value proce a valuable here after a value process of the value of value of the value of value of the value of value of the value of value of the value o

AYSSITIES IN RECORD OF PREFORM NUE TEST SINGLE OF PREFORM NUE TEST SINGLE OF THE PROPERTY AND MACH. TEST SINGLE OF THE PROPERTY AND MACH. 1951: mile 460 lb White Bloop. 2654; 13,423 lbs. 460 lb. With Cores. Monthello, One. 68 no-ball, 2372; 11,700 lbs. milk, 453 lbs. Morrison, Mr. Bign. Ont. 2009; 11,300 lbs. milk. 454 lbs. Milk. 250 lbs. milk. 455 lbs. Mak. 250 lbs. milk. 455 lbs. Mak. 250 lbs. milk. 455 lbs. Mak. 250 l

Growthy Youngsters That Do Credit to Their Breed.

These fine air months old calves were bred and are owned at Macdonald College, Quebec. They are the product of a herd in which substance, constitution and uniformly high production rather than phenomenal records are aimed at as a breeding ideal.

and a light run. Prices were cut slightly on the final market of the week but on the whole stayed higher than on the final market of the week previous. In addition to fat cattle stockers were min ing with a fair demand, as we may be a have orders to fill. Quotation average as

addition to fat cattie stockers were meeting with a far dimand, then average as follows:

Stockers and the stockers were meeting with a far dimand, then average as follows:

Stockers 57.0 to 57.75; good butcher steeps, \$7.56 to 57.0; com. to med. \$6 to \$7.15; hefers, \$8.75 to \$7.0; chnice own.

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\$8.75 tockers, \$8.75 to \$7.0; chnice own.

Light lambs \$8.75 to \$7.0; lambs, 1981, 1985 to \$8.75; chnice own.

Light lambs \$8.75 to \$7.0; lambs, 1981, 1985 to \$8.75; chnice own.

Light lambs \$8.75 to \$9.1; lambs, 1981, 1985 to \$9.5; chnice own.

Light lambs \$8.75 to \$9.1; lambs, 1981, 1985 to \$9.5; chnice own.

Light lambs \$8.75 to \$9.1; lambs, 1981, 50.0; lambs, 198

85 to \$4.25. Swine. whether being purchased for army supplies or not, are decidedly strong and now quoted \$8.65 to \$8.76 f.o.b. coun-

THE RREEDING OF A YOUNG SIRE

MR E. B. MALLORY, of Belleville, recontrol would a choicely bred young
ford, built to N. H. MacArthur, Thamseford, built to the dam of
King of the Pontisos, the sire of the enly
cow that were made 44 he, built er in seven
did A.R.O. daughters and 56 J.R.O. sons
and more daughters with records over 30
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phenomenal records are almed at as a 'ideal.

days. N Dyment Brantford.

Dyments of the Park of the Control of the Park of the Control of the Park of the Control of the Co milk, 416 lbs. fat, 449 per cent fat, 506 days. Director, Experimental Farms. Ottawa. Dainty Lass 2nd of Spruce Row: 9,205 lbs. milk, 326 lbs. fat, 3.52 per cent fat, 349 days. 8. Gallant, St. Chrysostome, P. E. Y. E. T. Arisona 2nd of Fairfield, 31075: 9,152 lbs. tilk, 365 lbs. fat, 5.99 per cent fat, 323 ays. G. R. Palmer, R. R. No. 1, Corn-

days. G. E. Amwall, Ont. Mayflower of Verschoyle, 3009: 9,116 lbs. Mayflower of Verschoyle, 3009: 9,116 lbs. milk, 381 lbs. fat, 4.17 per cent fat, 365 days. John A. Morrison, Mt. Elgin, Ont. Dairy Bell, 3955: 8,625 lbs. milk, 379 lbs. fat, 4.39 per cent fat, 327 days. G. R.

Palmer de P. 2237: 8,559 lbs. milk, 294 lbs. falt, 460 per cent fat, 325 days. B. R. P. Trapplates. Mistassini, Que. Scotch Lassic End, 3792: 6,722 lbs. milk, yells. progression of the part of the p

Ottawa Kate 2nd, 32560; 9,097 lbs. milk, 401 lbs. fat, 4,44 per cent fat, 565 days. Dir, Experimental Farms, Ottawa.
Kaster, 32561: 6,935 lbs. milk, 375 lbs. fat, 4,17 per cent fat, 565 days. Wooddiss Bros. Three-Year-Old Class rd. 32233: 10,862 lbs.

Bonnia Sari, 23331 19328 1138 milk. 69
Bonnia Sari, 23331 19328 1138 milk. 69
Bonnia Sari, 23331 1932 1138 milk. 69
Bonnia Sari, 23331 1139 per cent fat. 30
Bonnia Sari, 233 per cent fat. 30
Bonnia Sari, 234 per cent fat. 30
Bonnia Sari, 235 per cent fat. 35
Bonnia Sari, 335 pe

Browniage, 2000; 7,28 in 188. Mark. 23 in 1870.

Bros. Planton and 2005; 6,500 ibs mill. 2016.

Bros. Planton and 2005; 6,500 ibs mill. 2016 in 18. 426 per count fat, 266 days. V. I. Tran & 500; ibs mill. 2018 in 470. Julia, 26400; 6,501 ibs mill. 2018 in 18. Transpose of Freetyriew, 2007; 6,500 ibs Frimmone of Freetyriew, 2007; 6,500 ibs Frimmone of Freetyriew, 2007; 6,500 ibs mill. 2018. Nose. 1. 2018. Proceedings of the Committee of the Comm

ANOTHER 26-POUND COW AT AVOYDAL DITTOR, Farm and Dairy,—It may be treat some of your readers to tast that we have just had another day ter of Prince lieugerveld Pietle to make the prince lieugerveld Pietle who had ever 20 the another 8 months 8 he has just turned over 20 the, and will likely go higher with the prince lieuwery 20 the li

Farm and Dairy, P
Dear Sirs,—I fil
Last year I receive
had more orders th
as I have only 40 h
Thanking you le Such are the r Farm and Dairy, The housewives on spring there will be hatching. If you a line to night. There, good as those secur us help you.

******* **OUR FARME**

PRINCE EDWA

PRINCE CO. PRINCE CO.

KENSINGTON. April a storm Easter Sunda covered with snow and iast two weeks. "The been rather dull, 9%c price paid since early! have all wintered well scarce, although high not as high as usual at 160 in the egg circl.

MONTAGUE. April.

MNTAGUE, April snowstorm to-day. Win well. Nearly all the h people are preparing spring. Butter is soarc is very dear. Butter, 2 to 660; bran, \$1.50 a \$2.50 a ext. Oct.mad., 70 to 7½c dressed; porl hay, \$16 to \$18 a ton.—

From Manitoba

Arbogast Bros., Sebri Dear Sirs,—The b West Brome, Thurs good order and con pleasure to deal with The bull is as repre way. Respectfully

Sebringville Form and Dairy, Pet Dear Sirs,—We as card which we just Mr. O. Sweet, of Quet shipped a buil last was made through also was the Manitoh ones. So don't be bac ing FARM AND DA! factory advertising of AR

Such results as Arisecuring are open to of pure-bied dairy siminon. If you are if you have some able pure-bred dair sale, get in touch we shall be glad to assistance in arrang thing or in any way than to the control of the control

This is the Season

Guelph, Apr. 12, 1914.

Farm and Dairy, Peterboro, Ont. Farm and Dairy, reteroors, out.

Dear Sirs.—I find an ad, in your advertising columns a landy success.

Last year I rectived more orders than I could fill, and this your I have nice

Last year I rectived more orders than I could fill, and this your I have nice

at a law could yet have been a law orders and the edge, and

as I have only da, hens, you will see that they have I have not be business.

Thanking you lor your kindness, I am, yours truly,

(Sined) J. F. HALES.

Such are the results that our poultry advertises are receiving the hard and Datey. Poultry keeping is throwing a goody margin of world. The housewive on our farms are not satisfied with a monared flock. This was demand for thousands of access of pure-bred eggs for hoteling. If we a demand for thousands of access of pure-bred eggs for hoteling. If the property of t

FARM AND DAIRY, PETERBORO, ONT.

OUR FARMERS' CLUB

Correspondence Invited

PRINCE EDWARD ISLAND

PRINCE CO., P. E. Y. KINSINGTON April 5.—There was quite form Easter Sunday, the ground is sent two weeks. The sunday the ground is sent two weeks. The sunday the sunday the sent two weeks. The sunday the sent two weeks are sufficient and since early last fall. The stock two sents and the sunday the sunday

MONTAGUE, April 5-we had a big snowstorm to-day. Whiter it holding out seems to be supported by the support of the support of

oxform Co., ont.

OXFORD Co., ont.

NONTARIO

OXFORD CO., ont.

I have been contained the contrained of the contra

From Manitoba to Quebec

Sutton, Mar. 13, 1915. Arbogast Bros., Sebringville, Ont. Dear Sirs,—The buil arrived at West Brome, Thursday night, in good order and condition. It is a pleasure to deal with men like you. The buil is as represented in every way. Respectfully yours,

OGDEN SWEET.

Form and Dairy, Peterboro, Ont.
Dear Sira-We are enclosing a str. O, sweet, of questions, of siral peters of questions, of siral peters of question, of the siral peters of the siral

ARBOGAST BROS.

Such results as Arbogast Bros. are scuring are open to every breeder of purched dairy stock in the large of purched dairy stock in the large H you have some especially valuable purched dairy animals for sale, get in touch with, us to-night, as assistance in arranging your adven-ting or in any way that will make sales for you. Write us about what you have to sell.

bare, the present cold snap may were have with it. The horse market seen to be picking up a little sit. Hog price are improving, being \$4.0 at present Eggs have taken a drop to 16e to 20c. C. H. S.

are improving, being \$4.0 at present. Engage have taken a drop 1 fot to 20c. The control of the

GHITISH COLUMBIA
NEW WISYMINSTER DIST. R.C.
NEW SISYMINSTER DIST. R.C.
If the burnt out of his barn by a
feel. To be burnt out of his barn by a
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feel. To be burnt out of his barn by a
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feel. The burnt out of
this place. A fine team of horsee and
or quantity of hay, grain, etc. was -los
consumed by the hungry flames. The loss
weather being very dry, has enabled the
settlers on the foot-hils to burn Deri
brush to good advantage.—H. O.

like fist from 2353. bits mith—Malcolm St. Gardiner, Supt. A. E.

W. J. BALLEY'S HOLSTEINS
There is not a weak constitutioned, understood cow in Mr. Satilay's heed. Yes of techniques of the street of the street, who held his senior two-year-old 30-day rectifies the state of Netherland Falerit, who held his senior two-year-old 30-day rectifies the state of the street, who had been street, and the street, and had been street, and street and street, and stood third in the test, aring all had only and street of Nober is also as ow of constitution and capacity, as well as a gredient file lick, and had paley Faforti and ideal had present the street of Nober is also as ow of constitution and capacity, as well as a gredient file lick, which had year, and stood third in the test, aring all had charged and the street of Daiar Peoch. Hr. Balley's calves, like the own, are a had present the street of the street of the street of the street and subtle test.

Your Car

Disease must be prevented as well as cured. Zenoleum does both. Used according to directions it cures most animal diseases and destroys lice,

ictures mostanimal diseases and destroys lice, mites, and maggots. It is a powerful germicide for disinfecting barns, pens, henhouse and stables. Used by 50 Canadian and United States Agricultural Colleges and by Experimental Farms. You will find Zenoleum reliable, safe; will not burn or poison; always the same and it cures soee, call as sure as a divers and live stock authorities on the American continent are continual users of Zenoleum. It cures soee, call cholera, cuts, galls, ring uniform the continual users of Zenoleum. It cures soee, call cholera, cuts, galls, ring uniform the continual continual and the continual the continual users of Zenoleum. It cures soee, call the cholera, cuts, galls, ring uniform the continual continual to the continual that the continual continual that the continual continual that the continual continual that the continual continual

ZENNER DISINFECTANT CO. 318 Sandwich Street East - Windsor, Ont.

HOLSTEINS

BULL CALVES Fit for Service

ATORDALE PARM offers a number of young bulls from 10 shouths several others from 50 shouth several others from 50 and 28th dams.

We have also 2 young once from dams over 10 lbs, something extra of the control of the A. C. HARDY - Proprietor BROCKVILLE, ONT.

REGISTERED HOLSTEINS FOR BALE

Seven Bulls from 10 to 14 months old. at bargain prices. Also four grand-daughters of Poutisc Korndyke, 2 years old, due to freshen shortly, and this year's entire crop of Bull and Heifer Calves. WM. HIGGINSON - INKERMAN, ONT.

Advertise in these Reliable, Pro-

There is vast difference between keeping Holstelmand just keeping cows. One Good or Order of the confinery cows. You save in feed, housing, risk and labor. Holstein Cows milk longer, more per year, and more per life than any other breed. There's money for you in Holsteins. W. A. CLEMONS, Sec'y H.-F. Assec ST. GEORGE, ONT.

THE LYNDEN HERD

Igh Testing Holsteins. I am offering
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LAKEVIEW STOCK FARMS, BRONTE Breeders of High Class Holsteins, offesale some Choice Young Stock of both sex E. F. OSLER, Prop. T. A. DAWSON, Men

Lyndale Holsteins Will contribute to Broot 'lile District Holstein Breeders' & neisinment Sale, May 75th, 3 a.e.d of A. R. O. and R. M. stock. Present offering 3 young bulls, afred by Ring Fontiso Artis Canada, and out of high record cover. BROWN BROS. LVN. ONT.

BANOSTINE BELLE DE KOL

World's Champion Holstein Cow—27.404 lbs. milk; 1.322 lbs. butter—lss full stater of our premier herd size. MAPLE CREST DE ROL. CHAMPION. We have a few of his choice sons from the Dutchiand Colatha Sir Abbekirk, Notherland Aaggie De Kol and Aaggie Mercedes strains for sale.

Will also sell 100 bus. Golden Glow Early Ensuage Seed Corp. J. M. VanPatter & Sons, Woodland Farm, R.R. I, Dunboyne, Ont. (Aylmar

THE MAPLES HOLSTEIN HERD All closely related to the Ro.D. R. Syr. Calamity 2nd—45.774 her, milk and 985 lbs. hetter—25.80 lbs. as a 4-yr.-old—5 bull colvers wayne before the present of a half strucker to the second series of the second second series of the second series of the second series of the seco

THE BLOOD OF CHAMPIONS I am offering a 19 months Builf rod'the 2-yr.

a 11 months old buil, by a full brother of the recent 2-yr. old anamolon Netherland Faforit,

Will also sell a number of tested cows, helfers and buil calves.

ADBRIVILLE, ONT.

HET LOO FARMS VAUDREUIL, QUE.

Let us quote you prices an Hoifer Calves from 4 to 6 months old, also high bred good in dividual Buil Calves. Dams with records from 20 lbs. to 20 lbs. in 7 days. We are short or DR. L. de L. HARWOOD, Prop.

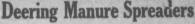
GORDON H. MANHARD, MEY



Ford Touring Car Price \$590

No advance in the price of the "Made in Canada" Ford will be made because of the additional 74% War Tariff. We as loyal Canadians will gladly absorb whatever increased duty we are forced to pay on such raw materials as cannot be obtained at home. The Ford is manufactured in Canadanot assembled in Canada.

The Ford Runabout is \$540; the Town car \$840;—all fully equipped, f. o. b. Ford, Ont. Ford buyers will share in our profits if we sell 30,000 cars between August 1, 1914 and August 1, 1915. Write Ford Factory, Ford, Ontario, for cata-





WHEN I bought my first manure spreader, I was thinking more of my horses than I was of my land. I bought a 'light weight' machine. It went all right empty, or with a half load, but it warped and jammed so after a few full loads that soon the horse souldn't move it. A spreader must have some wight if it is to is what soon may be more it. A spreader must have some weight if it is to is what soon might call a heavy machine. The beauty of it is that it neither warps nor jams and it works as easy when fully loaded as it does when nearly empty. As my neighbor said when he bought one like mine, 'I could spread soft coal with it.' I find it is much better for the horses, better for the land, and better for my pocketbook. This farmer owns a Deerig macure spreader built for efficient work, and field-tested in every feature. The weight is put into generating the state of the load of the l



International Harvester Company of Canada, Ltd





More than Three Hundred Given Away Last Year

Farm and Dairy's Sensational Pig Offer

Arrangements Made for Several Hundred This Spring

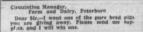


A POPULAR PREMIUM is a

A FOPULAR PREBIUM is a pure bred pig. Since the first time that we announced them that we are the properties of the prop



The pigs given away by Farm and Dairy are secured from well known breeders of pure bred stock. They are all good types in the particular breed that you desire (Yorkahire, Berkshire, Tamworth, Chester White, Poland Chinal, You are at liberty the bred and the sex of the pig





Pigs are all Pure-bred, and are of the very finest types

Hundreds of boys and girls have won pigs by securing subscriptions to Farm and Dalry with subscription blanks and sample copies. All you have to do is to call on a few of your neighbors and explain to them the Dalry, secure from them a dollar each for this subscriptions, and forward these to

RM AND DAIRY PETERBORO, ONT.



A PAVING PREMIUM is a pure bred pig. You receive it at a cost, which is very little fast a little of your spare time. It grows into a full grown pig at worth considerable money either to sell or to use for breeding purposes. In most cases we have been breeding purposes. In most cases we have been breeding purposes. In most cases we have been breeding purposes.



The entre fillattration shows a new three controls of the control of the control

In order to secure one of these pure bred pigs free, it is necessary that you send us nine new yearly subscriptions to Farm and Dairy, together with the payment of same, nine dollars. On receiving the subscriptions

arrangements are made to have the pig shipped direct to you from the breeder.



