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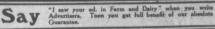
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FARM AND DAIRY

A 20,000 Pound Three-Year-Old

The Record of Baroness Madoline, a Result of Breeding, Feeding and Kiadness, Says Her Owner, Mr. William Stock, Tavistock, Ont.

Kindness, Says Her Owner, Mr. William Stock, Tavistock, Ont. B ARONESS MADDLINE, -No. and Knownber 13th, 1972, at into some harr. Above alt himage be kind. or harr. Above alt himage be kind. some harr. Above alt himage be himage b

March 11, 1915



Baroness Madoline Has Proven Her Merit at the Pail. Her records are given and her feeding described in the article adjoining, by her owner, Mr. William Stock, Tavistock, Ont.

seven days, several days later, 509.8 Ibs milk, 29.13 Ibs, butter, and in the month of January 2.700 Ibs, milk. She has now raised three beautiful heifer calves, of which her owner has a reason to be proud of.

reason to be prout or. - Her dam, Baroness Oxford Belle, 14 years old, was tested the same year, accurate weights being taken and t.sted by the same men, made 31,603 lbs. of milk. Being two weeks late in freahening, she did not qualify un-der R. O. P. rules.

Ger R. O. F. Fuise. As to the method of feeding, all that is necessary is common some and a little informer. Krindness is a good food and always takes well with all animals. Comfort and punctuality are needed to make a cost do her best. The above-mentioned, along with al-falfa hay, enalings, roots, out much falfa hay, enalings, roots, out much and off me seed ell al. there consu-tions for a coy. One should have lit-le difficulty in being accessful with costs as to quantify to feed. Is all depends on the conficion of the cort. My ain is to have plenty of enslings-hay roots and cast chop of which T feed thermaly. As to the rest of the feed me is the should make is a very good food and cas he fed in larger quanti-ties that a section seed neal, but the price that T have been feeding for and the T have been feeding for a section seed neal, but the price than the mesh for a setter of the T have been feed in the price that T have been feeding for a section seed neal, but the price than the peed in a streng good the thin the peed set of the set of the price than the the set of the set of the price than the the set of the set of the thin the best for the set. I all to be peed sub a.d. we then the As to the method of feeding, all

I aim to keep salt a.d water con-stantly before them. Dogs and broken

The Horse-Breeding Outlook

The flores-breeding Outlook The following note appears in the current issue of The Farmer and Stockbreeder. It is quoted here for the benefit of Canadian horsebreeders. "The wholesale depletion which British horse stock is undergoing to meet the requirements of the Army for the war will profoundly affect the horse-breeding industry. The draft for military purposes has been, and continues to be, as great that it must take years before it can be made good again, aspecially as a consistent de again, especially as a consistent de-cline in the number of fasls annually ired has been recorded during the last few years, so that only reduced con-tingents of three and two-year-olds, and still muller numbers of yearlings and forms which will mean a correspondingly high level of values, must therefore necessarily giver rise to a great revival in horse-breeding, par-ticularly the light-legged division, for it is primarily of this class of horse that the country is being denuded, though our stock of draft horses of all types, too, has been heavily drawn bred has been recorded during the last though our stock of draft horses of all types, too, has been heavily drawn upon. In addition to the necessity for replenishing the supply of horses to meet the requirements of our home markets, it is to be anticipated that there will be a greatly increased do-mand on the part of buyers from formand on the part of buyers from for-eign countries after the close of the war. Farmers and breeders will do well, therefore, to be alive to the im-proved prospects which it appears cor-tain the raising of horses must hold out, at any rafe within the more im-mediate future."



HAT the us including by Mr. W. J. B whose farm way Farm and Dair bought the old best known far a mile from the 70 acres but fr producing as m farms. Last ye acres of alfalfa, of millet. Mr. found that he from it than fro obtains night : him to grow rid 35 head of dai horses. He ra Beatty's succes in the dairy test him a name th through the pro

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to the creamery

ing paid about about 30 per ce the same price away from the c It convinced hi his cream else thought the ma day called on or grocers in Guel handling any c this grocer what was getting fi on the other li handled. He was a leasons and asked the g be willing to h cream for his c same basis. 7 plied that he w was made betw grocer advertise high grade crea Mr. Beatty as sending post ca of prominent pe where they wo purchase some Within two mo was selling 100 a day and Mr. ceiving \$1.30

'I realized fr

cream.



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

Vol. XXXIV

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FOR THE WEEK ENDING MARCH 11, 1915

Business Methods in Farm Management A Talk with W. J. Beatty, Business Farmer

"IAT the use of brains pays in any business including farming is being demonstrated by Mr. W. J. Beatty, a young farmer of Guelph. whose farm was recently visited by an editor of Farm and Dairy.º Mr. Beatty, a few years ago bought the old McCrae homestead, one of the best known farms in the province, located about a mile from the city of Guelph. It contains only 70 acres but from off this land Mr. Beatty is producing as much as is grown on many larger farms. Last year he raised 20 acres of corn, 15 acres of alfalfa, 6 acres of roots, and seven acres of millet. Mr. Bentty grew millet because he found that he could get a larger yield per acre from it than from anything else he grows. He obtains night soil from-Guelph, which enables him to grow rich crops. On his farm he carries 35 head of dairy Shorthorn cattle besides four horses. He raises all his own calves. Mr. Beatty's success with his dairy Shorthorn cattle in the dairy tests at Guelph and Ottawa have won him a name that is rapidly becoming known through the province.

Selling to Advantage

At one time Mr. Beatty used to send his cream to the creamery. He figured out that he was being paid about 86 c a gallon for cream testing about 30 per cent. This he saw was practically the same price that farmers eight and 10 miles away from the city were obtaining for their cream. It convinced him that he should be able to sell his cream elsewhere to better advantage. He

thought the matter over and one day called on one of the leading grocers in Guelph who was not handling any cream. He asked this grocer what percentage he was getting from the dealers on the other lines of goods he handled. He found that this was a leasonable proportion, and asked the grocer if he would be willing to handle high-grade cream for his customers on the same basis. The grocer replied that he would and a deal was made between them. The grocer advertised that he had a high grade cream for sale, and Mr. Beatty assisted him by sending post cards to a number of prominent people telling them where they would be able to purchase some of his cream. Within two months the grocer was selling 100 bottles of cream a day and Mr. Beatty was receiving \$1.30 a gallon for 2 to 25 per cent. cream.

"I realized from the start," said Mr. Beatty to - apt to make its appearance.

our editor, "that if I was to get and hold a good market I must supply a good article. I knew that where there was a market for sweet cream it was foolish for me to send my cream to the creamery. I was satisfied that there was a good demand in Gueiph for high-grade sweet cream, and my experience has shown that I was right. Last summer there was a demand for more cream than I could supply. Our arrangement has proved a good stroke of business for the grocer also, as some of his regular customers told some of their neighbors who were not dealing with him about the creati they were obtaining from him, and in this way he was able to obtain new customers for his other lines of goods beside cream. He delivered the cream while delivering, his other supplies."

"My place, which is known as 'Janefield Farm', became wil known to the people of Guelph and elsewhere when it was owned by Mr. McCrae. I have kept the old name and I advertised it on my cream bottles. It has proved a splendid advertisement. Living so near the city I am able to take my cream in fresh every morning. The grocer puts it in an ice box as soon as he receives it, and thus there is no chance of its ever becoming sour."

Although the barn was well arranged when Mr. Beatty purchased the farm, he has made a num³ her of improvements to it. He is a great believer in plenty of light and ventilation. "Where there is light and ventilation," said Mr. Beatty, "you



No. 10

A Wide Stable Well Lighted.

The stables of W. J. Beatty, Wellington Co., Ont., occupy the entire basement of a very wide barn. Notice the number of windows along the end. The window seen on the near side is continuous for the whole length of the barn, exclusive of door room.

Although the barn was well lighted before he bought it, Mr. Beatiy has put in about 30 extra windows at a cost of, about \$4100, and he considers it to be a good investment. He has also installed cement floors throughout, litter and feed carriers, and has two good silos.

"Where cement floors are used," said Mr. Beaty, "I advocate the use of planks on them where the cattle stand. There is then less danger of the cows' udders becoming caked, especi-

ally shortly after they have freshened. I use straw for bedding purposes and procure all I can get. I buy my grain and aim to have plenty of roughage."

Mr. Beatty is a good judge of a milking Shorthorn. He considers that a breeder who is raising milking Shorthorns makes a mistake when he strives to obtain large records from his cows as in doing so he is apt to go to extremes and neglect the beef qualities of his animals. He prefers to have a cow that while giving a large mess of milk also main dins her beef type. . A number of the animals in his herd are extremely fine specimens of the milking Shorthorn, and show that Mr. Beatty is meeting with a marked degree of success in the line of breeding he is following.



i in the article adjoining --Photos by an editor of Farm and Data i. will seldom find a sick animal, but where cows are crowded together in dark stables sickness is mu

I have no confidence in a back-to-the-land movement when it applies to people without rural experience.--Dr. G. C Creelman, O.A.C., Guelph.



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FARM AND DAIRY

March 11, 1915

Some Corn Crop Certaintiés

T HE future of the corn crop of 1915, whether for grain or ensilage, is wrapped up in the seed kernels we will put in the ground. If we plant seed of low vitality, we will have a sickly crop. If we plant seed of small germinating power we will have a patchy crop. Either one alone is handicap enough. Usually, however, if seed is deficient in one respect, it is also deficient in the other. Comparatively few of us know at planting time whether our seed is good or not. The first growth tells us the story, and if we have made a miss, there is little chance of re-seeding, as corn reeds all of the time it can get to mature sufficiently to make good feed. What a boon it would be if we could know definitely before we plant just what quality of seed we are planting !

We can. Ther is no excuse howadays for sowing inferior seed. We can tell with absolute surety and at little cost just how many seeds we may expect to germinate. The expense of testing need not exceed 10 cents an acre.

Buy Seed Corn on the Ear

The first rule toward obtaining this delightful security is to buy seed corn on the ear only. Seed corn growers invariably select the best ears for the ear trade and shell the poorer ears for the shelled seed trade. One dollar saved at seeding time by buying shelled corn may result in the

loss of \$20 at harvest. The ideal ear is one that will not twist in the hand, is regular in shape, with deep, strong kernels well covered over butt and tip.

The appearance is not the crucial test, however. The system that we have followed for years in testing our seed com is to take an ordinary nurseryman's seed flat about one inch deep, fill it with moist earth, and then drive in tacks every two inches along the edges. Ordinary white twine is then strung across each way and the surface of the flat laid out in little two inch squares. Six kernels are then taken from each ear and planted in a square by themselves, the number of the square corresponding with the number pasted on the seed ear. The flat is then stored behind the kitchen

kept moist, and in a few days test is completed.

The number of seeds

that have sprouted in each flat shows the germinating power of that particular ear. If none of the six seeds have sprouted, you can almost take it for granted that the ear they represent is of about as much use for seeding as so many cinders from the jurnace siftings. We discard everything that does not show four of the seeds germinated. We then dig up the tiny plants, and if they have shown a good strong root, we know that that particular ear has seed of strong vitality, as well as good germination. These are the choice seed ears.

Chop Off Butt and Tip

Our experience has shown us that the strongest seeds are the ones on the centre of the ear and

the weak lings at either end. Accordingly we chop off an inch.or two of both butt and dip and feed to the stock, using only the strong vital seeds in the centre for planting.

Here is an instance that was related to us by, an Oxford county farmer showing the importance of testing. Seed was scarce in his locality one

spring, and he had to use some of his

cribbed corn saved from the previous year. He tested the ears and found that some of them had been frozen and were absolutely dead. Others showed a good germination. By persisting in ' his testing work he was able to select a sufficient quantity of good seed corn for his own use. His neighbors, too, were short of seed, and they came to get corn from him. He warned them that his corn needed testing before being used for

> seed, but his warnings were disregarded. The seed looked perfectly strong and healthy. He had a perfect stand on his own fields. The neighbors who used his seed corn had fields that were poor and patchy in appearance. Just one instance of the value of testing seed before we sow it. Why not be certain of a full stand? -F.E.E.

About Oats

F. C. McCrae, B.S.A., Peterborg Co., Ont.

F we take a heavy weighing oat perbushel the chances are that it is a thick-hulled oat and a light yielder. The varieties that win at seed shows because of their weight and fine plump appearance are seldom the ones that win out in point of yield. The same applies in field crop competitions.

ed behind the kitchen stove, or any moderately. Sooteh immigrant, F. O. Murdoch, in setting a start, on In selecting seed oats, warm place would do, been built. The old farmbouse is now the stable. The source of the points investi-keet moist, and in a few the right of the homemeans ware solar is a start correct gated at the Ontario Agried gated at the Ontario Agriitor of Farm and Dairy. cultural College are

-Photo by worthy of consideration. Lots of seed were taken and the small shrunken

seeds, small plump seeds and large plump seeds separated by hand. These were seeded in separate plots, and by far the largest yield was obtained from the large plump seeds. The next largest was from the small plump, and a decidedly smaller yield from the small strunken seeds.

From this it is evident that the large plump seeds are the ones to seed and the small shrunken oats the ones to feed. It is not practicable on the average farm to separate the seed grain by hand as was done in the case at Guelph. Fanning mill selection, however, is practicable, and should be practised on every farm. A good fanning mill selection will give plump seed.



A Result of General Farming and Fruit Growing Combined. Ten acres of the Soacre farm of Mr. Nell McMillan, Halton Co., Ont., is in apple orchard. The orchard has as good as doubled the size of the farm in giving employ-ment to labor and in increasing the income.

Not Too Late to Increase Yields

WHEN wheat sells at \$1.50 a bushel, every bushel counts. Your wheat is planted. You can't increase your acreage now, but you can increase your yields. Adding six to 10 bushels per acre to your vields this season will certainly make the crop the most profitable in years. One dollar twenty-five cents wheat, or even dollar wheat, justifies spending a little more money than usual on this crop for this is a time when it will pay big.

When the war was declared, thousands of farmers changed plans and increased their wheat acreage. In the rush to put in the crop, many fields were insufficiently prepared and planted late, and thousands of acres did not receive sufficient amounts of plant food to produce even an average yield. Many fields will come through the winter weak and thin. Others will look strong and vigorous. No matter how good the prospect, you want a better one; you want-more bushels per acre than you ever raised on your farm, Immediate action on your part as outlined in the following will help make more bushels per acre and put more money in your pocket.

The Crop Must Have Moisture

Plants must have heat, air, moisture, and available plant food in abundance in order to live and to make the most satisfactory growth. Every pound of wheat requires 80 gallons of water. When the warm sun of spring beats down on hardened wheat fields, hundreds of barrels of water are lost through evaporation. As long as the top soil is hard, the water connection between it and the water supply below is complete, and the water goes off into the air. To stop this action, and to allow air to enter the soil spaces, you must act quickly if you want to save a field of sick wheat, or if you want to get even better yields from a good prospect.

Roll the wheat field as soon as it will bear a team upon it. Follow this rolling immediately with a light harrowing. Better use a "weeder," if you have one. If you have a harrow with adjustable teeth, throw the teeth back at an angle of 45 degrees and harrow the field, going back and forth, parallel with the wheat tows. This harrowing will not injure the wheat roots, but will break up the crust and make a surface mulch. This surface mulch will prevent much evaporation and save thousands of barrels of water. If you do not happen to have a roller, or if you do not think it wise to roll the wheat, harrow just the same. It pays.

The tiny wheat plant must have special nourishment. It must have a liberal supply of readily available plant food of the right kind to main-(Concluded on page 8)

March II, Produ Why No

W E are s of our concentrated for tor of Experim **Cttawa Winter** Grains in East tinued Mr. Gri centrates is in live stock prod the production the production accomplish this ing coarse gra

"It is my ob observed to inc become a habit the West is th grown. That i as well here. ing of oats, or undertake to g G

"It appears t to grow not on cessary to keep the small amou fact that too m are left down keeping them become no long There is too g tion of the land this way.

"Farmers the to get meadow grow grain. pared land will crop of grain. lutely necessary paration for th which as an av small in Ontar reason. We sl 20 or 25 bushe the acre, but bushels.

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"To secure crops of grain, to follow a crop hit or miss way the best return in other crops. perimental Far tried out many tions, and we f tions of three. years are the b When a Three

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Their Start in a New Land.

FARM AND DAIRY

Production of Coarse Grains in Ontario

Why Not Substitute them for the More Expensive Concentrates?

W E are spending too much money outside of our own country in buying expensive . concentrated feeds," said J. H. Grisdale, Director of Experimental Farms, in his address at the **Cttawa Winter Fair**, on "The Production of Coarse Grains in Eastern Ontario." "Each year," continued Mr. Grisdale,""the demand for these concentrates is increasing with each addition to our live stock production. We should go in more for the production of concentrates without reducing the production of our coarse forage. We may accomplish this purpose to a large extent by growing coarse grains on the farms of Ontario.

"It is my object to speak of the methods to be observed to increase these coarse grains. It has become a habit with us in the East to think that the West is the only place where grain can be grown. That is wrong. We can grow grain just as well here. We can't be beaten in the growing of oats, or of wheat, or of any other grain we undertake to grow.

Grow Dur Concentrates

"It appears to me that the time has come for us to grow not only forage but the concentrates necessary to keep up our live stock. The reason for the small amount of grain grown here lies in the fact that too many meadows

are left down indefinitely, keeping them down till they become no longer profitable. There is too great a proportion of the land kept down in this way.

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"Farmers then find it hard to get meadows in shape to grow grain. No badly prepared land will give a good crop of grain. It is absolutely necessary to make preparation for the grain crop, which as an average crop is small in Ontario for that reason. We should get not 20 or 25 bushels of oats to the acre, but 40, 45 or 50 bushels.

After Hoe Crep

"Crop production has received great attention at the Experimental Farm, and we find that the best preparation for grain is a good, wellhandled hos crop, preceding the grain. It is a waste of manure to apply it to land for the grain crop; the manure should be put on with the preceding hoed crop. which will leave the land rich enough for the succeeding grain, providing the land is otherwise properly prepared.

"To secure the largest crops of grain, it is necessary to follow a crop rotation. The hit or miss way will not give the best returns in grain or in other crops. At the Experimental Farms we have tried out many crop rotations, and we find that rotations of three, four or five years are the best to follow. When a Three Year Rotation

"The three year rotation is suitable for farmers with a small amount of arable land and a large amount, comparatively, of pasture. It is then best to divide the arable land into three equal fields, with three crops following each other as oats or barley seeded down, clover and timothy, and a hoed crop or corn or root. The hoed crop is the only one to be manured.

"In preparing the land for the grain, after corn, it is best to turn up the roots of the corn stubble, discing it in the fall and disc-harrowing and sowing the grain in the spring. The land should be in good tilth which is favorable for the seeding down with clover and timothy. This method, discing after harvesting the corn, has proved about the best for grain. A seeding down of 6 lbs. red clover, 6 lbs. alfalfa, 2 lbs. alsike and 6 lbs. timothy, will give the richest hay that will put herds and live stock in the finest condition.

"After the hay crop, the manure is applied during the winter or spring, with shallow plowing in the spring for corn, turning under the manure and working the corn well before sowing. "In the four-year rotation the same cultural conditions are observed, the fourth/ year being a crop of timothy hay or of pasture.

"The five years rotation gives two crops of grain, one after hay or pasture when the meadow is broken up and the other after the hoed crop, and the rotation would run thus: Grain, corn or hoed crop, grain, clover hay, two crops expected, timothy hay or pasture.

"For preparing the meadow for grain, it should be plowed in August, top worked, rolled and disced to rot the sod, top worked and ribbed up in Octber, disc-harrow in spring and then sow grain. It is not advisable to sow grain on sod unless the sod is completely broken down, and al-ways a grain crop after a hoed crop has been found a little better than the grain crop after sode With the latter grain crop, seed down with 10 lbs. of red clover, which is allowed to grow to be turned under the following spring.

"In grain growing early seeding is the best; but still late seeding is always better than no. seeding at all, and sometimes after unfavorable weather conditions produce wonderful results. Seeding as early as the farmer can get on his land is what should be aimed at.

Cheap Production in East

"Grain in Eastern Ontario can be produced profitably and more cheaply perhaps than it can be produced in Western Canada. It has been estimated that in the West it costs 30 cents to produce a bushel of oats; in Ontario, 25 cents, and it has been done at the Experimental Farm, Ottawa, for 12 cents.

"It used to be the practice to grow more peas in Eastern Ontario than it is at present. It is

true that there is a disease common to peas, but this can be met with proper rotation and cultivation. Peas are not an exhaustive crop. They leave, by the nitrogen they put in the soil, the land about as rich as they found it, and in good condition for any other crop."

Curing a Spavin Mr. Raynor, Prince Edward Co., Ont.

I have been told that a spavin can't be cured; but I have cured several. My driver contracted a spavin when 12 years old. I got some pine tar and rubbed it well into the blemish. Notice that I didn't merely apply it. I gave the spot a good rubbing. After 24 hours the blister was working well. Then I applied a grease. I kept the horse quiet for a few weeks and he became perfectly sound.

The pine tar sometimes requires to be rubbed in two or even three times. It is not an infallible cure, but it will cure a great many cases if given a fair chance. And it is a simple remedy, for a common and costly blemish.

Ensilage will freeze in the best silo if it is not taken out right. Our plan is to feed out in a spiral way, working from the outside and keeping the outside about two feet lower than the ensilage at the centre. We have found that with this method there will be very little freezing. Thawing ensilage in the stable is a slow job and we do not wish to risk feeding ozen. ensilage. - Clarke Hamilton, Dundas Co., Ont.



Officers of The United Farmers of Ontario.

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Catholic Children Who Need Good Homes

Superintendent of the Children's Aid Society, Guelph. Ont. would homes for this family of Jackobic children. These children can Ontholie homes, so Protestants should not apply for thom. Mr. o. to-place them on farms west of Peterbore. From left to right feed 10: Joseph aged 5: Kathleen, aged 27. Dunich, aged 10: Joseph ed 4: and Peter, aged 4: To are une applications should be made direct to Mr. Towell. Amos Tovell, to find good laced only in

When Buying Clover Seed

Don't buy clover seed that does not bear a label giving the purity and germination tests and information as to the weed seeds in it.

Don't buy clover seed of poor ap-pearance, no matter what the source, until a sample has been sent to the experiment station for examination.

Don't buy the low-priced clover seeds. There is always a reason for the low price. Either the seed is low in vitality or contains foul seeds.

Don't use clover seed screenings for any purpose. They are almost certain to contain noxious weed seeds which may easily be scattered to cultivated fields.

Don't wait too long to buy your clover seed this year. The European supply is cut off and the prices are steadily advancing.

steadily advancing. Don't forget that color is an indi-cation of quality in clover seed. A high percentarge of dark purple seeds in red clover, very dark green seeds in absite. and orrange seeds in white clover seed is an indication of high viability. Such seed should prive and cellant baands A fields Corosure to the seed or exposure to the weather.

Don't sow clover seed on acid soils or on a poorly prepared seed bed, and expect good results. Test the soil, and if acid apply lime in some form. -A.L.S.

The Seed Law

With the opening of the 1915 seed trade, seedsmen, farmers and garden-ers may wish to review the conditions ers may wish to review the conditions under which sales may be made. The Seed Control Act provides that time-iby, alsike, red clover and alfalfa seed must not be put on sale fog the put-pose of seeding without being plainly marked with the grade, namely: Ex-tra No. 1, No. 1, No. 3. No. 3. Far-ra may sell seed below No. 3 in quali-ers may sell seed below No. 3 in quality only to dealers to be cleaned and brought up to grade. All other grass, clover and forage plant seeds and those of cereals and flax must be marked in a plain and indelible manner with the common name or names of any noxious weed seeds present.

Seed of cereals, flax, grasses, for-

age plants, field roots and garden vegetables must have a germination of two thirds of the percentage standard of vitality for good seed of the kind or be marked with the percentage that are capable of germinating. "Papered seeds" must be marked the year in which the packet was filled.

Representative samples of seeds for purity and germination tests may be sent to the Seed Branch, Ottawa. Two sent to the Seed Branch, Ottawn, Ottawn, outputs ounces of grass seed, white or alsike clover; four ounces of red clover, al-falfa or seed of like size, and one pound of cereals are desired. Samples under 8 ozs. may be sent without postage and are tested free of charge up to 25 in number for each person firm. OT.

Weed Seeds in Soils Seed Branch, Ottawa

Seed Branch, Ottana The presence of words seeds in solid under different systems of culture and chops and the suggestite to farm-top and the suggestite to farm-el by the Seed Branch, Ottawa, shows and field which had been in hay or pasture for six years to contain 19,183 word seeds in a surface square yard me inch deep, 5.912 in the same vol-three inches and 4.303 at a depth five to seven inches. -Another field which had been under a good system of cul-ivation and rotation contained 8,984 weed seeds in the surface soil and 5.920 in each of the other depths. The concentration of seeds in the

The oncentration of meator depts. The oncentration of meats in the solution of The concentration of seeds in the

March II, 1

March 11, 1915

Mating Jas. A. Armst

My first farm factory one T mating. Each mating. 1,400 pounds. tion, and action identical as two thought I had

I worked thes one seasen, O. lazy, the other The result was harder than nee The sluggish h of his more a, was not that j the team that is work. I sold t then tried sever a satisfactory r The result was look as well as the great esset

In mating hos appearance is of This is particul of roadsters or case of lighter are more apt to lecting a team however, I put selecting a team I would put te wished to retain

Preparing f By 1

When spring feed can gradua perhaps to a har materially above horses which du acquired what hay-belly, the r be shortened ar pensated for by crease above th

the winter ration In all horse f attach the great and oats, and in for spring work ourselves to the is proper to add ration, after wo and when the show a little w account.

When work horses must be able caution, be judiciously we h ed them during of muscular stra

a little "softnes be overcome by by degrees up labor capacity.

One more wor many losses from azoturia during prove that it is n cannot here in detail, it sh that it is most that it is most horses, on a h which are sudds idle, without exc tinuation of the rule should be to are kept in the or days and on a days, and on a the grain ration duced to one-thi the animals mus portunity for exc

Rura

When Myron ernor of Ohio, h other chief execu-that he realized was the most in any state. It r that Mr. Herric nisant of the some better syste

Mating the Teams

Jas. A, Armstrong, Wellington Co., Ont.

My first farm team was not a satis-factory one "P+, trouble was in the mating. Each horse weighed about 1,460 pounds. In color, conforma-tion, and action they were as nearly identical as two horses could be. I thought 1 had a splendidly matched

though t has a pipelindry internet to a work these two horses together one search. One was inclined to be lary, the other was similar of sheary. The tresult was that the work was harder than meet be on both of them. The sluggish horse tried the temper of his more a live mate, and there was not that pull-together spirit in the team that is necessary to the best work. I sold the sluggish one and then tried several horses before I got a satisfactory mate to the one left. The risult was a team that did nore look as well as the first two, but in the great essential, temperament, they were excellently matched. — . In making horses for sale, outward.

In mating horses for sale, outward This is particularly true in the case of roadsters or light horses. In the case of lighter horses temperaments are more apt to correspond. In see are more apt to correspond. In se-lecting a team for my own work, however, I put temperament first. In selecting a team for my neighbor also I would put temperament first if I wished to retain him for my friend.

Preparing for Spring Work By L. Van Es

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Mame by fre ivatio

When spring work approaches, the feed can gradually be increased, not perhaps to a hard working ration, but perhaps to a hard working ration, but materially above the winter ration. In horses which during the winter have acquired what we commosly call a hay-belly, the roughage ration must be shortened and the shortage com-pensated for by a corresponding in-crease above the normal increase of the winter winter

the winter ration. In all horse feeding, we still must attach the greatest importance to hay and oats, and in preparing the horse for spring work, we should confine ourselves to these articles of diet. It is proper to add a little corn to the ration, after work is well under way and when the horses commence show a little wear and tear on this account.

When work actually begins, when work actually begins, the hores must be used with consider-able caution, because no matter how judiciously we have fed and manag-ed them during the winter, the lack of muscular strain will have produced a little "softness," which can only be overcome by bringing the animals but detreme to replace degrees up to their accustomed labor capacity.

One more word of caution, and the many losses from a disease known as azoturia during the spring season, prove that it is not superfluous. While prove that it is not superfluons. While we cannot here discuss this disease in detail, it should be' remembered that it is most apt to occur is work horses, on a high working ration, which are suddanly permitted to he idle, without exercise and under con-tinuation of the heavy ration. The rule should be that when such horses are kept in the stable (Sundays, holi-days, and on account of rain) that the grain ration be immediately re-duced to one-third or one-half, while the animals must be given some op-portunity for exercise.

Rural (Credits

Rural (Creats When Myron T. Herrick was Gov-ernor of Ohio, he differed from many other chief executives of the state in that he realized fully that agriculture was the most important industry of any state. It may have been then, that Mr. Herrick became fully cog-nisant of the great importance of some better system of rural credit on

the American continent. A few years that have have appointed Whited States have a suppointed Whited States have a place of finance, and have a suppointed with the states have a suppointed with the states with the states of finance, and have a suppointed of the states paid

To frighten or excite a cow may result in a decrease in both the quan-tity and the quality of the milk flow. Kindness always pays dividends in the dairy herd.

There are two things that every dairy cow has good feeding capacity and good udder capacity. Without these the longest pedigree is worthless.

You've got to breed the man as well as the cow.—Andrew Broder, Dundas Co., Ont.



ESSEX FARM SEED

WALKER SONS

THE SEED CORN WITH VITALITY is the kind you have always wanted and is the kind you will eventually buy. The set has a sufficient of the set of

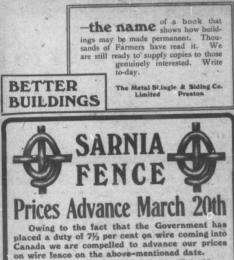
her for 1916. WE WANT YOU and YOU WANT US FOR 1916 for one or more the following varieties. The first four are Deni varieties and are the only at varieties that have been given a stand vd by the Ontario Corn Growers sociation. offston. -WISCONSIN NO. 7-White Dent. -WISCONSIN NO. 7-White Dent. -WHITE CAP-Yellow Dent. S-LONGPELLOW-Flut. SHIPPED ON THE COB in horse 70 Hs. nst. Price \$3.00 per bushel P.O.B. Walkertille, Ont. Money order together with shipping instructions must secompany order. Note in this issue our winnings at the Corn Show-Sweepstnkes' Price, 1st on W.C. Yellov Dent, 1st on Bailey, 1st on Golden Glow and other Awards. This is the class of corn we grow.



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FARM AND DAIRY



(8)

220

Although the new tariff took effect Feb. 12, we are following our regular custom of notifying you before we advance our prices, thus giving you the opportunity of buying at the lower price. As you are no doubt aware, we are the only ones who do this.

Up to March 20th we will accept orders at the prices listed below. After that date add 2c. per roc to the styles weighing 11 lbs. or over and 1c. per rod to all lighter styles. These prices are all freight prepaid to your station.

GUADANTEE

We guarantee our fence to be made from the best galvanized hard steel wire, both stay, line wire and knot; and to be as perfectly woven as any fence on the market, and of full Government gauge No. 9 wire.

MADE IN CANADA

Stock Fences all Full No. 9 Wire.

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18	58	435, 5, 5, 6, 6	41	44	
Barb Wire Prices Advance 15c Per Spool P point, per 80 rod spool P point, per 80 rod spool The Sarnia Fence Co. SARNIA, ONT.					

Huntingdon Dairymen Meet

The annual convention of the Huntingdon Dairymen's Association was held at Howick, Que., on Feb. 26th, The proceedings were largely of an educational character. A strong an editectional character. A kroug plea for the seach ig of nature study was made by B. E. kruke, B.S.J., the Macdonal College demonstrator in the district. Mr. G. E. Emberley, also of Macdonal College, strongly advocated more extensive under drain-advocated more extensive that the innervocated more extensive under drain-ing operations, claiming that the sin-creased crops of the first two or three years would pay the cost of the work. With a dicting machine he estimated the cost of under-draining at \$10-an acro, while with hand diching the cost rose to \$33 an acro. The various phases of market with

cost rose to SSI an arcs. The various phases of market mills production were taken up by W. F. Stephen, of Huntingdon, he defining a successful producer as the one who "meets the conditions imposed by the city health authorities, producing a clean, uniform mills and makes a pro-fit therecon." Prof. Barton, of Mic-donaid Coll'soy, othracterizing the feet and most attractive feature of fam-ing." mole a strong plea for the conand most attractive foature of Tarm-ing," made a strong plea for the con-servation of the live stock of the country at a time when market condi-tions discouraged feeding operations. One of the most popular speakers 'at the convoltion was Mr. Wm. Hotling, the convention was Mr. Wm. Holling, who made a fire impression by his practical talks on farm smannaby heat and farm poolitry. Mr. Holling oper-ates a daffy farm, a large fruit ranch and a poultry farm at Kind arbook, N. Y.

The Use of Fertilizer "It is frequently good policy to ap-ply less barnyard manure and in addi-tion a few handred pounds of com-mercial fertilizer," said Mr. Ham-mond, of Macdonald College. He advocated the purchase of potter in the form of sulphate or muris and phosphorie acid in the form one meal or acid phosphate, rebuying of ready than the fortilizers.

or acid phosphato, that the buying of ready that fortiliners Nitrogen, the most costly fortiliners of ment to by dry turning under the second second second second the second second second second buyod ables, basic shag or lines, should be applied to all sour or acid sells. The Board of Directors for the en-ming year were elected as follows: D. H. Brown, Beith, All. Ablesh, Valley, Reas and Hesoric Gordon, Howick ID. A. McCorreick, Brownie, K. R. Nees and Hesoric Gordon, Howick ID. A. McCorreick, Brownie, Howick, Tor-tart, B. Brownie, Howing, Tor-tart, B. Brownie, Hominigford, Art anabequent meeting of the direo-president; D. H. Brown, President; R. Nees, Vice-President, and W. Stephen, Huntingdon, Scereary.

Not Too Late to Increase Yields

(Continued from page 4) tain it in vigorous growth. Big (Continued from page 4) tain is in vigorous growth. Big cross-food. The biggest help you can give your whest crop is to apply 100 to 300 pounds per acre of an available for-pillere analysing two per cents to four per cent annonia, eight per cent and two per cents to three per cent or distributed on the whest through the fertiliser attachment of the whest drill, with the line spreader, or other drill is used, leave the data suppre-piants. Apply this ferrowing it will work it into it of the plant-food. You can carry ou p four inches in height with the torp. It has no weed seeds. There are chover seed is sown up-on the wheat field in early spring, this . Big crops

March 11, 1915



He Is Known as "Doc."

any of Our Folks will here reco O. Andrews, of Brantford, com twn as "Doc" who for several canvansed for subscriptions to i Dairy at fairs, conventions at ther places where farmers

early cultivation will bury the seed sufficiently deep to insure good ger-mination. The addition of available plant-food in the forms mentioned. will greatly increase the chances of a successful "catch of grass." By such theatment, weak wheat will be greatly benefited and materially assisted to-wards a profitable yield of superior quality of grain. Top dressing pays.

Cardinal Facts in Production

Everybody can do a little. Every man should do what he can. Every woman should do what she

Improved production means increased production. Canada's future depends upon our

actions of to-day

In serving the Empire we are serv-

In serving the Empire we are serving ourselves. Markets are not created, won and held in a day. Now is the time to prove ourselves the granary of the Empire. We have the soil, we have the re-sources, we mush have the energy to use them to the greatest advantage. With mean than helf of productive

With more than half of productive Europe engaged in war, and large sec-tions decimated, other countries, and especially those forming the British Empire, will have to make up huge deficiencies, both of foodstuffs and extends aterial

material. Great Britain imported 51,786,915 bushels of wheat from Canada in 1913. She imported 80,013,879 bushels from the United States. She also import-el 19,789,969 bushels from Russia and

Cent.al Europe. Great Britain imported 24,148,833 bushels of barley in 1913 from Russia, Dunkein of barley in 1013 from Rinsia, Roumania, Turkey, Germany and Austria. From Canada she took 5,977.538 bunkeis, or Pay Inan a fourth. Grast Britain took 22,454,683 bunkeis of osta from Germany, Runsia and Roumanis in 1013, of which one-half was from new bittersets and most savage enemy of 1-0-day. C on Russia incoment 102,000 for the 100 for the savage enemy of 1-0-day.

C at Britain imported 185,125,000 buards of wheat from August 1, 1913, to July 33, 1914. Russia exported 183,867,000 buahels and Roumania 45,643,000 buahels in the same time. How far is Canada going to help to make up the deficiency?

Great Britain imported from August. 1, 1913, to July 81, 1914, 54,307,000 bushels of oats. Russis exported 34,760,000 bushels, Germany 25,077,000 and Roumania 17,185,000 bushels. Who is going to make up this de-beinery of syventy-serven million bush-ch?

March 11,



Experiment St of a test to d feeding 'values pigs. Data ar pigs fed the fo Lot 1, soake

-Lot 2, soake Lot 3, soake Lot 46, soa

parts, tankage The pigs fe faster and mo than the pigs was found that and marketed ground wheat i In all cases a fected by grind wheat a \$1 a b economical as v a bushel.

The lots red faster gains th alone. Lot 2, fe and tankage, o erage gain per than Lot 1, fe Lot 4, fed grou tankaye one pa gain per pig of Lot 3, fed grou

Rational Broo

J. R. Honaldse We have alw cates of the o brood sows. much of a good dent showed us carrying the fre One of our sou

weeks, was runn when we ran ou was a busy seas filling and light of our thought we were still fe a litter of 12 pi ther was cool protection afford not of the best.

The sow seems and before two had no milk at pigs were dead, hand raise the but only one sur it always rema vidual. As pigs lars a pair when was considerable The fault was

The fault was not the sow's, breed her again of her. We win an open shed ar of the barnyar ground oats and A short time be were pleased in were placed in i able individual p sow gave us a lit raised ten of ten raised ten of growthy bunch.

The brainy bo professions. stay on the far. cannot make a s into the profession of Ontario.

FARM AND DAIRY



Ground Wheat for Pigs

Bulletin No, 144 of the Nebraska Bulletin No. 144 of the Nebraska Experiment Station gives the results if a test to determine the relative feeding values of whole wheat and grourd wheak wheat fed to fatteding pice. Data are given on four jois of pigy fat the following rations: Lot 1, soaked whole wheat: "Lot 2, soaked whole wheat 19 parts, unhave one part:

-Lot 2, soaked whole wheat 19 parts, inakage one part; Lot 3, soaked ground wheat; Tot 46, soaked ground wheat 19 parts, tankage one part. The pick fed ground wheat made faster and more economical gains than the picks fed whole wheat. If was found that pics can be fattened and marketed on a shorter fed with ground wheat than with *r*hole wheat in all cases a great saving was ef-fected by grinding the wheat. Ground cheat a 21 a bushel proved to be as economical as whole wheat at 75 cents a bushel. a bushel.

The lots receiving tankage made faster gains than the lots fed wheat alone. Lot 2, fed whole wheat 19 parts alone. Lot 3, fed whole wheat 10 parts and tankage, one part, made an av-erage gain per pig of 0.20 pound more than Lot 1, fed whole wheat alone. Lot 4, fed ground wheat 10 parts and tankage one part, made an average gain per pig of 0.13 pound more than Lot 3, feo ground wheat alone.

10

Rational Brood Sow Management

J. R. Monaldson, Renfrew Co., Ont. We have always been strong advo-cates of the open air treatment of brood sows. But you can have too cates of the open air treatment of hood sows. But you can have too much of a good thing. A recent inci-dent showed us our tendency to arr in carrying the fresh air method too far. One of our sows, due to pig in a few weeks, wa. running in the hog pasture when we ran out of ground grain: It was a busy season, and threshing, silo filling and light ploving occupied most of our thoughts. Instead of gotting some grain ground, we fed where oats. We were still feeding whole oats when a litter of 12 pigs arrived. The wea-ther was cool and drimly, and the protection afforded by arroid shed was not of the best.

protection afforded by art old shead was not of the het. The new sectimed to have little milit, ind before two days had passed about the section of the sect

The brainy boys used to enter the professions. Now the brainy boys stay on the fact wid the boys, who cannot make a success of farming go into the professions.—Premier Hearst of Ontario.



ALL No.9 COSTS LEAST Because It's Sold Direct From E Factory to Farm (Freight Paid) PAGE FENCE corts less to une locate firs sold direct to you. Selling-expense within adds memorability to feed-out to set point by our direct-sales plan. Ten pay poily circ, mail profit when you huy the selling of the selling of the set point by our direct-sales plan. Ten pay poily circ, and the you have the selling of the selling of the pay only circ, you pay only to or 35% as most. What we point out a selling of the or 35% as most. What we point out of the selling of the or 35% as most. What we point out of the selling of the or 35% as most. What we point out of the selling of the or 35% as most. What we point out of the selling of the or 35% as most. What we point out of the selling of the or 35% as most. What we point out of the selling of the selling of the out of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the selling of the out of the selling of the selling of the selling of the out of the selling of the selling of the out of the selling of the selling of the selling o CAR ELS HEAVY FENCE



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Send your order to the nearest PAGE BRANCH. Enclose cash, check, money or express order or bank-draft.

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There are ways choosing

cutting it, and pre-

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FARM AND DAFRY

No. 25-100% O.K. Planter.

Who Will Grow

quickly by machines. The crop goes in in quarter the time, and in straight regular rows. The O. K. Planter drops the seed on finely-worked soil. You get 100 per cent, stand and a field you can outlivate easily. Bugs and blight are kept under easy control with an O. K. 4row Horse Sprayer. Digging is done in one-half time and better with an O. K. Die

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CANADIAN

POTATO MACHINERY

GALT. ONT.

March 11, 1915

Selling J. A. Rei

new phase of It was the se old chicks, I knew there and being chicks at 10

However, people who more to get were already Therefore, some chicks, of one month With this .in incubator on ing it with 1 three weeks chicks from diately filled i eggs and co three weeks u

In all I pu cubator, and it. I realized all my chick therefore I ha inserted in a

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Farm and De vertisement i Inst fall I re than F could be assured I very shortly.

Good farm poultry for the know about eggs for hate sale. Farm a sell them. FARM -AND

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pure-bred oneme \$5 for three ed inquiries e advertisement. I had some

envelopes prin inquiries the s ceived. I also take a picture chicks, and e letter I sent ou me to sell my thing else, I f chicks, and at for them than The inquirie

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ing one-monthday-old ones. is a greater de to the fact that yet sell chicks a also many peop chicks at this is tality among the they have passe received 35

chicks, while th ing them, incl feed, advertising each. However, stock. Fancie good sto extra trouble getting I for them.

The 11th annu Canadian Seed will be held at (and 12th, 1915. be held in the C Metcalfe Street, sions in the Room of the Ho



Five Dear Little Boys That Need Homes

good coal tar preparation. I keep both incubators and brooders as clean

as I can make them and disinfect as thoroughly as I know how. So long

thoroughly as 1 know now. So this as these precautions are lived up to rigidly, white diarthoca will do a minimum of harm. But somehow or other it will always manage to get

in to a limited extent.

in to a limited extent. I might so on and give cautions and directions by the doren, but it int'n necessary. Success in incuba-ting chicks is paid for in taking pains. Each manufacturer has studied his wan machine until he knows it lik. a book. Follow his directions ex-plicitly for fhree whole weeks at a tipe and if the incubator does not give you a 100 per cent. hatch, it will give you a 100 per cent. hatch, it will give you a 100 per cent. hatch, it will give you expluse more satisfactory than old biddy ever did, taking all things in-to consideration.

AXLE GREASE

Has been your

horse's best

friend for years.

It makes pull-

ing easy. The

Dealers Everywhere

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IMPERIAL OIL COMPANY Limited

mica does it.

Dear Little Boys That Need Homes. they are right in the machine. Before starting an old machine or even a new one, I would scrub it out thor-oughly with zenoleum, or some other



"Poultry Jack," Wellington Co., Ont.

If incubators were only "sure hatchers," as the incubator adver-tisements read, what a load would he taken from the shoulders of the poultryman. 'But incubators are not sure hatchers. Even before the incubator comes into play at all, we must have the eggs with strong fertile germs. One year 1 had set a "sure hatch"

not get a chick. The hest incubator wouldn't have got a chick. There wand't a fertile egg in the lot. Since then, J havoff' made any startling ec-cords with my incubators. I haven't made any of the 100 per cent or better hatches we hear about, but I have got good results and feel that I have as much right to talk incubator as the majority of poultymen. One of the first cautions I yould vise

the majority of poultymen. One of the first cautions I would give to the prospective purchase of an in-cubator is, get a machine that is big enough. It is easier to chend one big machine than two small ones. It is more economical on sil. The temper-ature is easier to adjust. Less space remorptionatile is required and adjust proportionately is required and when it comes to getting early pullets, one hatch from a 240 egg incubator is certainly more effective than two

Incubator Wisdom

incubator with 100 eggs in it. It did not get a chick. The best incubator

hatches from a 120-egg machina, Here is another point that may mean much in your success with the incubator. Keep it in a room where

incubator. Keep it in a room where the temperature is as even as pos-sible. The most desirable place may vary on different farms. One of my riends has his incubator in the root cellar, and that is the hest place for it on his farm. Above all things keep the incubator clean. White diarrhose, the great cause trouble if it is not keept clean. White diarrhose cannot reach the is-cubator chick unless the greats somewhere handy, and in most cases

The Old Dairy Cow=== -Makes the Wheels Go Round The Dairy Season of 1915 Promises to be our Greatest Yet.

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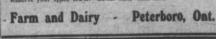
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message in our

DAIRY MAGAZINE ANNUAL **OUT APRIL 8th**

"OUR PEOPLE" are specialists in dairying. Dairy farms and farm homes demand the best you can produce-in machinery, fences, fertilizers, cream separators, etc .- everything for the up-to-date farm home.

It's your part of Canadian Prosperity to provide these. Our big DAIRY ANNUAL of April 8th will help you in selling them. Reserve your space NOW. Better early than late.



When writing to advartisers say you saw their advartise ent in Farm and Dai



Ganadian Dairy Products totalled over \$145,000,000 for 1914. Most of this great sum will be expended for better equipment for

You can Supply a large part of this by having your selling

Selling Month-old Chicks

J. A. Reid, Farm and Fireside Last summer I decided to try a new phase of the poultry business. It was the selling of chicks, not day-old chicks, but one-month-old ones. I knew there was money to be made, and being made, selling day-old-chicks at 10 or 15 cents each.

chicks at 10 of 15 feents each. However, 1 knew there were many people who would be glad to pay innor to get provide the set of the tweet sheady past the danger period. Therefore, 1 determined to hatch same shicks raise tilben to the age of one month, and then sell them. With this in view 1 started a 140-age incubator on the 15th of March, fill-ing it with 140 eggs. At the end of thing it with 140 eggs. At the end of thicks from the incubator again, with eggs and continued filling it every

dialety filled the incubator again with eggs and continued filing it every three weeks until the 15th of June. In all 1 put 550 eggs into the in-cubator, and took 355 chicks out of it. I realized that I could not sell all my chicks locally te advantage. therefore I had a small advertisement inserted in a farm paper, offering

Norwood, Ont., Jan. 14. Farm and Dairy, Peterboro

Finha and Darry, retrieves. Dear-Size,-From my simple ad-vertisement in your Farm and Dairy last fail received far more orders than F could possibly fill. You may be assured i shall be with you again very shortly.

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ven thor other keep Yours very truly, Nicholl Poultry Yards.

Good farmers demand pure-bred poulity for their flocks. Let them know about any pure-bred fowl or eggs for hatching you may have for sale. Farm and Dairy can help you sell them. Write us to-night. FARM AND DAIRY, PETERBORO Samananan

pure-bred one-month-old chicks at 35 cents each. The advertisement cost me \$5 for three insertions. I received inquiries every day through this advertisement.

If had some next letterheids and envelopes printed, and answered all investores printed, and answered all investores and the same day they were re-releved in the same day they were re-take a picture of a photographic chicks, and enclosed one in every letter I sent out. I think that helped me to sell my, chicks more than any chicks, and at times had more orders for them than I could fail. The inquiries and/an occasional order kept on coming for weeks after. I had sold all I had. I never imagin-ed that there would be auch a demand for them or I would have run several in-mations instead of one. I had some neat letterheads and

incubators instead of one.

There are several reasons for sell-ing one-month-old chicks instead of day-old ones. In the first place, there is a greater demand for them, due is a greater demand for theh, due to the fact that faw poultrymen as yet sell chicks at this age. There are also many people who prefer to buy chicks at this age because the mor-chity among them is very small after they have passed this period.

mey nave passed this period. I received 36 cents each for my chicks, while the total cost of rais-ing them, including cost of eggs, feed, adverthing, etc., was 16 cents each. However, mine were only attility stock. Fanciers, or those having extra good stock, would have no trouble setting 50 cents each or more for them. for them

The 11th annual convention of the The 11th annual convention of the Canadian Seed Growers' Association will be held at Ottawa on March 11th and 12th, 1915. The day sessions will be held in the Caracgie Library Hall, Metcalfe Street, and the evening ses-sions in the Railway Committee Room of the House of Commons.



FARM AND DAIRY

is winning out all over America. Average 307 to 280 eggs per han in 355 days, Our 1995 Mating List is beautifully illustrated with photos of birds and build-nings also contains feeding formulas, etc. Sense usyon address on postcard and copp will be forwarded by return mail **Free**. Eggs: \$1.50 per 15; \$7.00 per 100; \$60.00 per 1000 Pen 23 Winners at B.C. Egg-laying Contest. L. R. GUILD, Box 16, ROCKWOOD, ONT. 103 Eges in 109 days

GUILD'S BRED-TO-LAY STOCK

PATRIOTISM and PRODUCTION

"I would urge the farmers of Canada to do their share in preventing the people of Great Britain from suffering want or privation." HON. MARTIN BURRELL, Minister of Agriculture.

The Empire Needs Many Foods

In the past Great Britain has imported immense quantities of these staple foods from

Average Imports Years 1910-1913 Wheat..... 28,439,609 bush. Oats..... 23,588,304 " Barley..... 15,192,268 " Corn..... 7,621,374 4 Peas..... 703,058 4

APROLEMENTS C. S. Y. Y. Y. Y.	000,003	
Potatoes	4,721,590	14.
Onions	271,039	4
Meat	26,509,766	Ibs.
	21,112,916	
Butter and		

Cheese ... 93,765,233 [ba. The above smeritioned sources of supply of staple foods are nearly to the main, cut of a so result of the war. Great Bufain is looking to Canada to supply a large share of the shortage Every individual flat shortage Gvery individual for shortage duty to perform.

For information and bulletins write to

Canadian -**Department** of Agriculture, Ottawa, Canada

Millions of bushels rather than millions of acres should be Canada's aim. That there is abundant reason

That there is abundant reason to expect larger returns from the same area is conclusively shown when we compare the average production of the production. Note the following brief table which shows the average in 1014 and possible production per acre. Average Possible

The second second second	Average	Possible
Fall Wheat	. 20.43	62.
Spring Wheat	. 14.84	33.
Barley	. 16.15	69.
Oats	. 36.30	91.
Corn, Grain	70.	200.
Corn Ensilage-	12222	STORE TO B
(Tons)	. 12.	19.
Peas	15.33	37.
Beans	18.79	50.
Potatoes	.119.40	450.
Turnips	421.81	1000.

Increase Your Live Stock

Breeding stock are to-day Canada's most valuable asset. The one outstanding feature of the world's farming is that there will soon be a great shortage of meat supplies. Save your breeding stock. Plan to increase your live stock. Europe and the United States, as well as Canada, will pay higher prices for beef, mutton, and bacon in the very near future. Do not sacrifice now. Remember that live stock is the only basis for prosperious agriculture. You are farming, not specu-

actual results which have been obtained by our Experimental Farms and by many farmers. These "possibles" have been obtained under intensive cultivation methods and conditions not altogether possible on the average farm, yet they suggest the great possibilities of increased production. By greater care in the selection of seed, more thorough cultivation, fer-tilization, better drainage, the average could be raised by at least one-third. That in itself. would add at least \$150,000,000 to the annual income of Canada from the farm. It would be a great service to the Empire, and this is the year in which to do it.

By "possible" is meant the



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SUBSCRIPTION PRICE. ELSO & rear. Great Britain, ELD a year. For all countries, except Quanda Arous, Intellation, and Es for states. The states of the states of the states of the biologic copy received up to Saturday preceding the following user's laws. UNITED STATES REPRESENTATIVES

STOCKWELL'S SPECIAL AGENCY

icago Office-People's Gas Building. w York Office-Tribune Building. CIRCULATION STATEMENT

CIRCULATION STATEMENT The paid reuberityions to Farm and Dairy exceed 16000. The actual circulation of each issue, including copies of the paper each subscriptor, who are been allow the base of the subscription states. Bissen than the full subscription states. Beyor, deviated statements of circulation and pro-tained than the subscription states. Bus that be subscription states. Bus that the subscription states are second that the subscription states. Bus that the subscription states are subscription states are subscription states. Bus that the subscription states are subscription that the subscription states are subscription states. Bus that the subscription states are subscription states.

OUR QUARANTEE We guarantee that every advertiser in this issue in the second se

The Rural Publishing Company, Limited PETERBBORO, ONT.

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

Order Seeds Early

T HOSE of us who send our orders to the

seedsmen early in the season always get the promptest and best service. As the planting season approaches, every seedsman in the land will be flooded with orders, which can not be filled immediately. If certain lines of seeds run out there is no time to replace them, and the customer must take a substitute, or do without. It is not fair to the seedsmen to delay our orders until the last minute, and it is poor business so far as we ourselves are concerned.

This year there are special reasons why we should all order our seed as early as possible. A comparatively small proportion of the root and vegetable seed sown in Canada is grown in Canada. The main sources of supply are the European countries, with Germany in first place. These sources of supply having been cut off, higher prices may be expected, and it is just possible that in some lines, even at advanced quotations, supply may not be equal to demand. This spring it surely looks as if "the early bird" would get the best seed offering.

The Cattle Market

HOICE butcher's cattle sold on the Toronto cattle market last week for \$6.75 to \$7.25. One year ago the same class of animals sold at \$8 to \$8.15. A corresponding variation runs through quotations on all other classes of live stock.

Corn last week sold at 81 cents. A year ago it was quoted 69 to 731/2 cents. Oats are now 63 to to cents as compared with 36 to 37 cents, the corresponding week last year. The same rule applies to all other feeding stuffs.

These figures explain many things. In part, at least, they explain why there were 600,000 fewer cattle in Canada at the end of 1914 than there were at the end of 1913. They fully explain the large proportion of unfinished cattle now arriving

on all our central markets. Grain 's selling everywhere at record war time prices. Cattle quotations, on the other hand, have slumped, and cattle have ceased to be a profitable medium through which to market grain.

The same tendency is working in the dairy industry, and explains in some measure at least the lower prices being scalized for pure bred dairy cattle. The drift from dairying to grain growing, however, will not be so noticeable as the drift away from cattle feeding. Dairying is more profitable, even in normal times, than beef making, and war quotations are more favorable to a continuance of the industry. True, the demand for city milk has been curtailed and butter quotations are hardly satisfactory, with here and there a condensory closed, but cheese is high and likely to continue so while the war lasts. There is a chance, too, that condensories will soon be opening up. The outlook of the dairyman is surely rosier than that of the feeder of fat cattle.

A Deplorable Tendency

T HIS drift to grain growing and grain marketing must be regarded as a backward step in Canadian agriculture. Everyone who gives thought to the future must regard present tendencies as deplorable. To many of us it appeals as a case of selling future welfare for present gain. A couple of years of grain growing on many soils will deplete fertility to an extent that will take years of careful farming to restore. It is well to remember, too, that when the war clouds roll away, live stock will again assume a position of first-rate importance, but if breeding stocks are allowed to become depleted, the establishment of a new herd will be an expensive operation.

Is not the policy of extensive grain growing at the expense of the live stock end of the farming business, purely one of "chasing the present dollar?" The laws of nature are inexorable, and if we rob the soil now we must pay in full later on. Consideration of the future indicates the wisdom of conserving our soil through our live stock. Increased grain production which comes from better seed of improved varieties and from more thorough working of the seed bed is of more value to the country and to the farmer himself than the extra bushels which come from increased acreage.

The Duty on Fertilizers

IN the rearrangement of a customs tariff, de-L tails are apt to be overlooked and injustice done where none was intended. It is only on this ground that we can understand the increase of seven and one-half per cent. in the duty on commercial fertilizers. As Canada has no native supplies of many important fertilizers, and practically all must be imported, the increase in the tariff on fertilizers from ten to seventeen and one-half per cent. is a very decided tax on production, and will materially curtail their use. At the same time the experts in charge of the "Patriotism and Production" campaign are pointing to the use of these fertilizers as one method. and an important one, of increasing the production of our farms this year. Is it not inconsistent for one department of the Government to urge increased use of commercial fertilizers, while another department makes an already heavy tax on their import almost prohibitive.

The Canadian treatment of the fertilizer problem stands out in strong contrast with the practice of other countries. The enemy guards food as if it were ammunition. Fertilizers are preferred freight on German railroads, the government furnishing free tarpaulins to cover the material in open cars owing to the scarcity of closed cars. The other great colonies of the March 11, 1915

British Empire have no duties on commercial fertilizers; indeed, Australia finances her farmers to the extent of five and one-half per cent. on its purchase. Even in the United States, once called the home of Protection, no duties are levied on fertilizer. The increase in the tariff on fertilizers may be one of the details overlooked by Minister of Finance White in arranging his budget. Is it yet too late to rectify what must seem to every farmer a mistaken policy?

Hired Help Made Profitable

TT is not scarcity of farm labor so much as the high wages that must be paid to make labor more plentiful, that is leading so many farmers to go out of live stock, reduce their cultivated area and increase the acreage of grass and pasture. We farmers are at a disadvantage in competing for labor with the city employer whose position is made secure by tariff and other monopolies. We will be at the same disadvantage for many years to come. Can we not, however, on our own individual initiative do something to make labor more efficient and profitable and hence increase the wage which we can profitably pay our help? In this connection a sentence in a recent issue of Hoard's Dairyman hits the nail fairly on the head: "Most of us," says our contemporary, "have too many poor cows and too many poor methods to pay a man good wages for a reasonable number of hours work."

There is much homely and honest philosophy in this statement. Too many of us are producing crops in the most expensive way and feeding these crops with a minimum of returns to unprofitable cows. The adoption of systematic rotations and of modern implements win serve to decrease cost of production in the fields. A productive dairy herd in the stables will enable us to market our crops at something better than the highest market price and at the same time maintain the fertility of the soil. With efficiency at both ends of the business we will be able to offer wages that will attract a better class of labor and more labor to the farm.

The Alberta Way

T HE people of Alberta will in a few months vote on the question of provincial prohibition. Oh no, there is not going to be a provincial election with one party lined up alongside the "Wets" and the other with the "Drys," Alberta has a better way of solving its problems. In the Alberta way the people will go to the polls to vote on the one subject of prohibition. To drive the curse of the liquor traffic from their province they will not have to mark their ballot for or against the candidate of one political party. Their votes will be for booze or against booze, and the result will not affect the party standing. This vote will give a true representation of just what the people of Alberta think of prohibition, not what they think of prohibition plus a political party, as is the case in the other provinces of Canada.

The movement for a vote on prohibition started in Alberta some months ago. A petition, largely signed, was sent to the Legislature. As soon as it was received the Government had to prepare legislation to submit to the people whether it would or not. This is called the Initiative, the people themselves initiating the legislation they desire. A day has been set when the question will be submitted to a vote. This is called the Referendum. In the Initiative and Referendum combined we have a means whereby the people rule. They can start legislation and decide on questions at issue to suit themselves This is true self-government. When are the other provinces going to fall in line?

March 11, 10

Cooper

URING the several scor mers throu been conducting commercial fertil farm crops. The conducted in conj perimental Union lated form on this sent the average and are probably of what may be mercial fertilizer farm of Ontario. table, however, it that in some of t go to make up t there was a disti of commercial other farms they w fitable than the a cate. The results the fact so often only method of d or not commercia used to advantage to experiment wit farm.

Examining the tail we find that with oats gave bushels an acre i a bushel.

Results of

Kind of Fertilizer

Muriate of pota an increase of 1.5 \$3.32.

Good Results Nitrate of soda an increase of 5.1 81.4 cts. a ton or This result was de

With sweet turn equally satisfactor cured by using In the case of th was 5.4 tons at a ton; with potatoe cost of 10.9 cts. a

An application complete fertilizer applied in the fall 5.2 bushels at a bushel. A similar spring increased th at a cost of 51 cts ter a profitable re season

"Each experime conduct these fer on the average soi Prof. C. A. Zavitt results tabulated found that some ter on some farms results speak in garding the use under the varying farm land of the Fertilizer

"We conducted "We conducted plicated experime Seven plots receive tilizer applications super-phosphate a ash were used sing tion. Lime at the an acre was appli and a dressing o tons an acre, was

Cooperative Tests With Commercial Fertilizers in Ontario

URING the past eight years several score of progressive farmers throughout Ontario have Leen conducting experiments with commercial fertilizers for ordinary farm crops. The results of this work, conducted in conjunction with the Ex-perimental Union, are given in tabuperimental Union, are given in tabu-lated form on this page. They repre-sent the average of all tests made, and are probably a fais-representation of what may be secured from com-mercial fertilisers on the average farm of Octario. In studying the table, however, it is well to remember the table of the secure that there was a so distinct loss on the avethere was a distinct loss on the use of commercial fertilizer, while on other farms they were much more proother rarms they were much more pro-fitable than the average would indi-cate. The results serve to emphasize the fact so offen reiterated that the only method of determining whether-or not commercial fertilizers can be used to advantage is for each farmer to experiment with them on his own farm. farm.

Examining the results in some de-tail we find that complete fertilizers with oats gave an increase of 9.8 bushels an acre at a cost of 42 cts. a hushel

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The mirrate of soda was applied when the barley was three inches high. "The highest yield per acre was from a complete fertilizer of 100 pounds of nitrate of soda, 100 pounds murrate of potash, and 200 pounds super-phosphate; the second highest yield was from coy manure slone, 20 ions to the acre. The increase at the of potash applied at the of ane of 100 pounds an agree the largest size. 100 pounds an acre, the largest ap-169 pounds an acre, the largest application giving an incremes of 7.4 bushels of barley at a cost of 85 cts. a bushel. In one case on a landy loam in Algoma the increase of crop by the use of commercial fertilizers "One bundred and sixty pounds". "One bundred and sixty pounds ""One bundred and the sixty pounds when they were three inc to maintena they were three income and the sixty applied when the seed was sown, incl. we do the weld the sixty in the seed was sown, incl. we do the weld the sixty in the sixty in the sixty applied when the seed was sown, incl. we do the weld the sixty in the seed was sown, incl. we do the weld the sixty in the seed was sown, incl. we do the weld the sixty in the seed was sown, incl. we do the weld the sixty in the seed was sown, incl. we do the weld the sixty in the seed was sown, incl. we do the weld the sixty in the section of the sixty in the section of t

seed was sown, inclused the yield 4.7 tons. It will be seen that the nirate of soda, I60 pounds to the acre, has given very satisfactory re-sults with this crop in all experi-ments that have been tried. It will be noted, too, that 400 pounds of com-mon salt gave about the same in-crease as 100 pôunds nitrate of soda with mangels,"

Results of Fertilizer Experiments Covering Eight Years

			ild per Ac	Winter	Wheat.
used. Exact im	e. Prox- 5 yrs. inte 74		syrs. 5 yrs. 41 18	Autumn 6 yrs. 8 yrs. 98 22	plied. Spring Syrs.
Nothing	o. bush. 38.9 .80 46.3 .00 43.8	tons. tons. 8.2 2.7 9.4 3.1	tons. tons. 20.6 19.6 26.5 22.6 24.6 23.7		Bush. 17.9 18.8
Superphosphate 300 3. Complete Fertilizer. 213 4. Potato Fertilizer 320 6.	.92 43.6 .94 48.7 .62 ····	9.0° 3.1 9.4° 5.2 	24.2 24.7 25.4 25.0	156.8 22.4 166.8 24.1 167.5 164.5	01.00 00.00
Oow Manure	.00	*** ****	26.9	174.7 26.3	23.0

Muriate of potash with com gave n increase of 1.2 tons at a cost of \$3.32

Good Results With the Grops Nitrate of soda with mangels gave an increase of 5.9 tons at a cost of 81.4 cts. a ton or 2.5 cts. a bushel. This result was decidedly satisfactory. sweet turnips and potatoes satisfactory returns were se-With sweet equally equally satisfactory returns were se-cured by using complete fertilizer. In the case of turnips the increase was 5.4 tons at a cost of 78.5 cts. a ton; with potatoes, 39 bushels at a cost of 10.9 cts. a bushel.

An application of 213 pounds of complete fertilizer to winter wheat applied in the fall increased the yield 5.2 bushels at a cost of 82 cts. a bushel. A similar application in the spring increased the yield 8.2 bushels at a cost of 51 cts. a bushel, the lat-ter a profitable result in almost any season.

Season. "Each experimenter was asked to conduct these fertilizer experiments, on the average soil of his farm," said Prof. C. A. Zavitz in discussing the results tabulated herewith. "We found that some fertilizers paid bet-ter on some farms than others. The such a some has a season of the se results speak in a general way re-garding the use of these fertilizers under the varying conditions of the farm land of the province.

Fertilizer For Barley

Fertilizer For Barley "We conducted a somewhat com-plicated experiment with barley. Seven plots received commercial fer-tilizer applications. Nitrate of soda. super-phosphate and muriste of poi-ash were used singly and in combina-tion. Line at the rate of 1400 pounder an acre was applied to another plot, and a dressing of cow manure, 30 tons an acre, was given throughout.

Good Work in New Ontario

The following report, from the Connee Farmers' Club in Thunder Bay District, is illustrative of what can be accomplished through such organizations, even though they are

"We have held some seven or eight meetings with an average attendance of 10. We do not seem to be able to do very much, but wint little we have done, has shown us the benefits of cooperation. For instance, we had no station on the C.N.E. at Hume; so the Farmers' Club went to the railway the Farmers! Club went to the raile ay company, as an organisation, and also got the control to take the matter-up, and now we have a nice little station at Hume. We also asked the. C.N.R. to fence their raintrader and have received their assurance that it will be dono in the apring. We had petitioned the raintrad for the same things before as individuals, but-they took no notice of as, but they do take notice of an organised comtaka notice of an organized com

they took he notice of is, but they do take notice of an organised com-""We have had a few social gatherings "when the social continued mer-had a social evening on the social social evening on the social social social evening on the social social when the social evening on the social social evening on the social social when the social evening on the social social evening on the social social of the social social programme was rendered by the Farmer's (lub social reformance in the social social

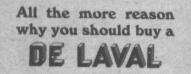


every year you use a **Cream Separator**

N O other machine or implement used on the farm receives anywhere near such constant use, nor is there any other farm machine or cquipment with which quality of work means so much and first cost means so little.

If the separator runs hard, gets out of order or isn't easy to wash, it's a constant bother, and it only takes a very little loss of cream at each separation, when multiplied 730 times, to run times, to run and a money, very soon more than the original cost of the machine. But no matter how small the loss, it is too big the second secon a handicap for any cow owner to try to work with.

As a matter of fact, the men who know most about cream s has a matter of ract, the men who know most about cream se-parators, the creamerymen, long ago came to the conclusion that the De Laval was the only machine they could afford to use. That's why 98% of the cream separators used in creameries and milk plants the world over are De Lavals.



No matter where you will find the biggest and best dairy-men almost invariably are De Laval users. Experience has taught them that it is the best and most economical cream separator.

You don't have to experiment with cream separators any more because the men, who are best able to judge as to the merits of the cream separator argaineady done that for you, and the result of their conclusion is evidenced by the practically exclusive ase of the De Laval in creameries and milk plants and the fact that over 1,760,000 farm and dairy size De Lavals — more than all who mether only and the the daily as other makes combined-are in daily use.

The nearest De Laval agent will be glad to set up a machine for you and arrange for payment of same as is most convenient. If you don't know the local De Laval agent, simply address the nearest main office as given below.



FARM AND DAIRY



F there is a good deed to be done, if there is a noble aim to be realized, if there are duties awaiting us in our daily lives, the time for all that is now before sunset.-Desmond.

The Child of Her Heart By ROSE E. PARMELE

(New England Homestend)

(14)

"Y the state precisions," asured Augusta Burton, "but I could out think of accepting it." Mrs. Searle, chairann of the nominating committee, had pat driven over three miles of sticky roads to be refused without a protest.

"Dear Mrs. Burton," also begged, "please do not decide hastily. We have set our hearts on your accept-ance and I simply cannot face the committee with a refusal. Your prominence in musical circles has given by which security is the set that prominence in masical circles has given you such a wide acquiratance that your election is certain. And think of the influence you would have. There is almost nothing for the public good that you could not bring to pass in time. Aside from all that, think of the benefit you will derive from the position. In going out to different cities occasionally you will meet de-lightful people and be accorded every honor possible. You wild be brack-ened in every way by a wider sphere and will be happier in being more useful."

Mrs. Searle paused, having ex-hausted her ammunition, and studied her target closely for the result. Could she but have known it, every shot found a weak spot in the other's armor, but Augusta preserved a brave front.

"I appreciate the honor, believe me," ahe responded, "but such a position is impossible for me at pre-

<text><text><text>

(New England Homesterd) OU are very kind to offer me fully for the most part, certainly the state presidence," assured without bitternees or regree, until to-Augusta Burton, "but I could think of accepting it." Mrs. asid to hersolf, "If is were not for the chainant of the nominating thitte, had put driven over three s of slidey roads to be refused out a probest astri-hear Mrs. Burton," she begged, heavier the wisdom of her course.

There were other relatives who would not have left the two-years-old child homeless, but when Paul asked her with wistful eyes if they-she and

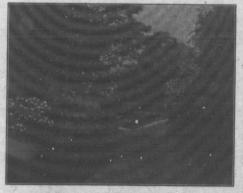
many inforests, Freddio's welcome had been assured. He was a dear little out. We certainly have feasted on fealwe, and his toys, his wardrobe, his beat very absorbing and astisfying. bet verday after a year of wildforwar ery and thirsty for the means and held it out to Paul confidently. "No, he can's have it, Paul." inter-gry and thirsty for the mean and broke one, and mother She longed as never before for the old commonionship. the anorread of

old companionship, the approval of minds and hearts that appreciated her talent. How could someone else's child take the place of these? Freddie could know nothing of her talents and would never fully understand all the sacrifices she had to make for his sake

She sat with listless hands far into the afternoon, when the striking of the dock warned her that Paul would soon be home. He always came earlier soon be home. The arways calle earlier Saturday afternoon and they had early tea and went for a drive after-ward. The horse and phaston had been hired for a small fee when the-Burtons took the little farm cottage for the summer. Augusts went to the kitchen, but remembering there were no eggs in the house she donned a pretty blue subconnet and started for the tiny chicken house.

"Me, too, Muvva," called a small voice, and when she did not wait for Freddie he began to cry. "Muv-vah," be wailed diamally.

be waited dismain. "Come along then," Augusta paused to say. "Hurry up." If you were of any account you might get the eggs and let mother start the fire." She took his expectants hand im-patiently and hurried him along as fast as his fast legs could earry him. She found three eggs in the clean



A Triumph in Tree and Shrub Arrangement.

Such planting as this gives home the appearance of an earthly Paradise. When the main reliance is placed by trees and shribs, as in this case, the cost of uplece farmer. Best remins are obtained by streets of the strength of the weilcout adding a shrub here and a tree there as they are seen to be needed to make the pleture complete.

Paul-had not better take him she had agaeed at once. "If not bone of-my bone and flesh of my heath be shall be the child of my heart," she said impulsively, and Paul had kissed her almost reverently er almost reverently.

Once before there had come to how at providing to the a bright the could not give up have tatilise for omenone close's child. At fifteen the boy was, in a reform school, and also constitutes questioned if she had chosen the better part. Ho had grown into a handsome lad and might have been a better one with her training, a boy of whom she might well have been proud. When Freddie was left alone in the world, this memory haunded her, and with Paul's wistful eyes to plead and the crying out of her own arms which ached with their emptiness in spite of her Once before there had come

straw in a corner, but to-day for the first time since coming to the cottage she did not exuth over the fresh white ovals laid sepscially for her. "Me one, Muyra," domanded the child with extended hands. Mechanically she placed one pre-cious egg in his rosy palm without the unstomary care and caution, and he immediately dropped the fragile time.

immediately dropped the fragile time. "There, you have broken, is," solid-ed Augusta. "Now you can't have any for anyper." "Awed by his offence and the unusual tone of her voice, Freddis trudged hach silently ad alone, is for step-urence was forgotten, however, and, he aked aweelly for an exam. "Freddie can't have any because he broke one," Augusta rominded him. "He may have mine," offered Paul

March 11, 1915

"No, he can bhave it, Paul." inter-posed Augusta firmly. "Freddie was careless and broke one, and mother told him he could not have any for supper." It irritated her to think she had made such a foolish declaration, but having pronounced the ediet she meant to atand by it. The child threw himself back in his chirt and refused to est anything un-ing alluringly on the pleasures of a se dire before thom. Augusta completed her meal in ailence, while Paul carried on a small coversation with Freddie

a small conversation with Freddie. Later as they took their places in the phaeton she wondered how it would seem for her and Paul, just they two, to drive through lovely twilling. Lanes with no small restless body crowded between them demonstrated to drive through lovely twing a consider with no small restless body crowded between them, demanding attention every few moments. "Children are such selfish crea-tures," she declared aloud. "They de-

mand all and can give nothing in return.

"No, nothing material," agreed Paul easily, but his indulgent eyes smiled on the bobbing head at his el-

Paul was positively foolish about the boy. If he could have afforded it he would have brought him a new toy every day. "Isn't it immense to have eone to buy flimsy little toys for, he had exulted once, and they both had laughed happily. With an effort Augusta shook off her depression, de-termined not to spoil the delightful evening by her own unlovely mood.

The Service in the Church

They came to a little church ablaze with light and half-hidden by trees, and hearing singing Paul suggested going inside. In these evening excurgoing inside. In these evening excur-sions they were wont to follow their own aweet wills impulsively without forehought or plan and often met with delightful surprises. Therefore, Augusta was not startied at Pauli Augusta was not startied at Pauli abe had set her mind an heing argr-able if possible, so she readily con-sented. sented.

sented. The speaker was a foreign mission-ary, the gathered, who had only this Saturday evening to give to the little church. In the progress of his enter-taining talk Augusta discovered the surprise in store for her this time. Seated shead and across the asis from her were two old-time friends whom she had not seen for fifteen years. Evidently they had not come together for they ast apart, but the three for they sat apart, but the three friends gravitated toward each other as if drawn by a magnet. After the préliminary explanations little Mrs. Horton turned to sweet-faced Ruth Peters.

Peters. "Did you marry?" also saked. "No," Ruth replied smilingly, "I keep house for my brother and an serving as pastor's assistant in a church of itve kundred members, so I manage to keep buy and happy." "Yon do not know what love is in your life," Bells Horton spoke her ap-have children." All you marry and ave children." I no marry and there. See the second state with heart-sarching truths and Augusts

heart-searching truths and Augusta feared for the one great disappoint-ment of her life — her childlessness.

mont of her life—her childlessness. Also for her failure in trying to love another's child as her own. "Ruth has certainly found her sphere of usofulness," she hastened to add. "I heard about her work last winter through a friend. Her parish-ioners look forward to her wints long-ingly for days ahead." "I think overy woman ought to

"I think every woman ought to have children," reiterated Belle with conviction. "If she hasnt any of her own she should beg, borrow or steal some from someone else."

(Concluded next week)





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FARM AND DAIRY

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Needed Strength

The Upward Look

an it to do in all the years to come? Think of the lonely old ago before me!" With a careesing touch, the older woman told her that many years be-fore she hereal? had had one errons an thread had here that many years be-fore she horm any methy. When she we have norm any methy. When she we have norm any methy, when she result and the she have the doctor er-ouring of her by asying; just think of none step at a time, on more, and if each day, she were able to accomplish that gain, she should be quite content. So her young friend must not look sheat to the long stretch of years, but take each day as it comes, and make able to be gain the the should be any but affind and work as the do the seem as if there would be expert it, as fod mant her to have the will send it.

There must be some work in her

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veins, you will want to celebrate the 17th of March.

The Shamrock forms the basis of decorations for all these festivities, the blending of the white and green being most

effective. For, a luncheon or support, cover the table with white, arrange a contropiece with a wreath of green mass decorated with tiny flags of St. Patrick, Canadia and the Allies, Place in the wreath a tall wase of white distantiations or a large large. Ministere pers, can all be, lingward, douber pers, can all be, lingward, douber pers, can all be, lingward, douber words From St. Patrick As the guests arrive gree each one

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The sended from the chandler. The sended from the chandler. The sended from the chandler. The sended from the sended from the self of the sended sended sended the sended sended sended the sended sended the sended sended

isstant fi obliged to state au orce again.
"Something Green," Guessing Contest Por these who want a quieter game, why not try this simple contest. The anawers to all the qutetions must be "something green."
Namo d a colefated poelf-ond Greenlesd Whittier.
Child Artist 7-Kate Greenway.
Cold Constryf-Greenland.
Emigrate-Greenlerz.
Domestic Fruit-Green gage ulim.

Legal tender ?-- Greenback. 7. A place for growing plants? - Greenhouse.

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tea. A part of the theatre?-Green

room. This list could be added to inde-finitely.





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A MAN tried to a was a fine horse it. I wanted a snything about horses And I didn't know the very well either

und i didn't knowe the cry well either. So I todd him I wan y the horne for a m lo said 'All right, him is first, and I'll give alk your money if orse ion't all right. Well, I didn't like th as afraid the horne w shright' and that I a you go whistle for any. I unce parted with didn't buy the he righ I wanted it he this set me thinkin wase I make Was

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PICTURE to yourself the difference in labor between setting milk in any of the old-time ways and skimming it with an IHC cream separator. What a job it is to wash the pans or crocks. How many handlings they need. What a lot of time it takes to fill them and set them away, to protect them from dirt, to do the actual skimming, to dispose

of the cold skim milk, to purify the crocks or pans. Now note the difference. With an IHC separator the milk is skimmed while still warm from the cows, the separator is washed in a few mit utes and everything

The separator is washed in a rew min area and everything is ready for the next milking. You want the separator that will help you most and save you most. Take time enough to buy a cream separator. The hore carefully you will see that one of the laterational Harvester separators...a Dairymaid, Primese, or Lify, will serve you bed. See the Life (local ageut. Get catalogues from him or write to



FARM AND DAIRY

Butter and Cheese Makers are in-ted to send contributions to this for Ale matters relating to che and to suggest subjects

Just Remind Him T. M. Hunter, Peterboro Co., Ont.

My experience has been that if can of milk is sent back, and the cheesemaker mentions the matter to the patron in a manner at which the patron will not take offence, he will think more of the maker, and un-derstand that he is twying to improve the cheese.

Most patrons nowadays know how to care for milk but are very busy with other work, and let the milk go. Some just throw it into the can. When a patron sends a can home it reminds him that milk must have a certain amount of care.

Rennet for 1915

It appears that there is a plentiful supply of rennet for the present year's cheese-making in Canada; but after the war broke out a report was started to the effect that as most of the rennet used in the Dominion came from Gerused in the Dominion came from Ger-many, the supply from there would be cut off. It turned out, however, that ample supplies were left over from last year, to meet all requirements for 1915. And before another year the farmers will be instructed by the dairy commissioner, Mr. J. A. Rud-dick, of Ottawa, how to make their own rennet; instead of depending up-on German manufacturers. There is no reason why formers

There is no reason why farmers should import such a necessary ar-ticle for the making of curd, when about or the mutual concentry are they can seture any quantity of calves' stomachs, from which remet in procursed. This article in propared by cutting up the fourth or digesting stomach of the cuching calf, and then adding sait thereto. The influence of remet is also to a kind of fermenta-tive action, whereby the sugar in the milk is changed into lateit caid. The process of making remets is so simple that we know of a party in this sity procuring curd with which she made the celebrated Cambridgenhire cheese cakes. There is, therefore, no need of importing remets from Germany or Denmark.—Trade Bulletin.

Cream Supply During Winter] Months

G. Cevil Thomas, York Co., Ont.

It is indeed surprising that patrons do not realize that an even supply of cream during the whole year is one of the first requisites of successful dairy-

ng. The farmer drops out of the ms <text>

March 11, 1915

The Makers' Corner by it the farmer would supply his when y matter of conjourse to those merely a matter of conjecture to those who are unable to persuade their patrona to keep the cream coming for-ward, that if is pays in the summer whom all these additional costs must by be transmotically benefited by keeping the factory and men employed for 12 months instead of five or seven? Would not the farmers appreciate the extra one or two cent which would accrue to them from the special trade that comes rinking to meet the all-year factory, not to mention the smal-ler gains from the reduced cost of average? The average butter maker and cream hasher is longing for the day io come when he can get 12 months' work at fair wages, rather than seven montha at a wage neces-tarily high to enable him to live-through the winter months when work is searce. is searco

Just a word in regard to quality of cream. I think the day is not far distant when the dairymen will have an awakening much the same the an avanceling much the same as the fruit growers are having at the pre-sent time. The care which would be necessary to deliver the cream in good condition, instead of the quality which we receive now, would be paid for twice over in the better returns for the cream. The fifth which I have been connected has actually resulted in a teads which warranted an invesse. a trade which warranted an increa

a trade which with the per pound. The dairying industry in Canada has a spiendid opportunity. Let us hope that the time is near when the farmers will realize their responsibil-ity and their opportunity.

Good Cow Profits

Chas. F. Whitley, Ottawa

In one dairy record centre maintain-ed by the dairy division, Ottawa, in 1914, there were such surprising c trasts in yields of milk and fat that they must command the attention of

they must command the attention of every progressive dairyman. The best cow in one herd gave only 4.138 pounds of milk and only some 136 pounds of fat; the average of the whore herd was only 3.772 pounds of milk and 138 pounds of fat. In a berd near by the poorest yield of any one cow was 5.858 pounds of milk and 278 pounds of fat; the herd average was 7,335 pounds of milk and 343 pounds of fat. of fat.

There were several individual yields

There were several individual yields of over 8,000 lbs. of milk, while one good grade cow gave 14,400 pounds of milk, and 562 pounds of fat. Coming to the cost of feed, plenty of herds had an average cost per sow of from 840 to 855, even at these high figures the profit above the cost of and average of the source and the source of the s feed ran up to \$46 and \$50 as the herd average.

Such results are full of encourage ment for the owners, and augur well for the future of cow testing in the Maritime Provinces. Other dairy-Maritime Provinces. Other dairy-men may well strive to emulate these records of \$50 and \$65 clear profit above the cost of feed as made by good individual cows. This sensible method of determining the respective merit of each cow as a profit maker lays a solid foundation for building up a singularly interesting herd from a modern business standpoint.

I would be in favor of paying for milk by test if is will tend to improve the quality of the milk and gan be done by a competent man. I have an interest in two factories, and they are running on the pooling system. Some patroni who have sent to fac-tories where they pay by test, were disappointed because their milk did to be and the sent to factors. "A Brown, Graverlie GO, Ont."





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OUR FARMERS' CLUB rrespondence Invite

Correspondences invited NOVA SUOTIA CAPE DERTON CO. N. 5. BALMON HIVER, Pub. 34-Very, open reather helps to concerve cattle feed ack of more prevents has tailing and re-reating the concerve cattle feed ack of more prevents has tailing and corr neal are slovely pring up. Bright area they neal are slovely pring up. Bright area they optimg has season's stock-J. E. X. OUEBEC OUEBEC OUEBEC

OUEBEC RICHMOND CO., OUE. DANYLILZ. Feb. 55.-We are net of of rain't has been failing for any stendy: the rivery and Brooks ready the river was and throoks ready the river was and the method of the river than last sear. E m./Bed is lower than last sear. E by butter, 86.-R. J. B.

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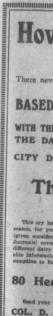
BRITISH COLUMBIA BRITISH COLUMBIA NEW WESTMINSTER CO. R. C. CIILLIAWACK, Peb. 36.—The seather very mid. We have had no mow wither. The brins work is progress well, but the seather seather well and the seather well and the seather seather seather seather and seather seather had been for many years. In some plac-had been for many years, in some plac-had been for many years, in some plac-had been for many years. In some plac-her benefits and the seather the meantains of the super country-N.

roans were in great demand, d away with all the top prices he lot they were a very nice hould have futhed a grood but those who were fortunal a new head for

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pared with the same date last year. the strong undertone of the market. grocer price in Montreal is 400 for



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For immediate sale, four folio Tommer Tearling Buils, bred from Newsy produc-ing dams and imported size. From 860 to 860 each. If taken within next 30 days. Asso Choice Large B. P. Cockerels as If William Tripen. Trout Ruh Stock Parm LYNEDOCR, NORPOLK CO., ONT. Long Distance 'PRome

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LAST CALL FOR Auction of Enterprise Reg. Hoisteins TUESDAY, MARCH 16th See last issue (March 16th) Dairy, page 25, for information re animals offered Thes. Wilson & Son, R.R. 1, Enterprise, Ont.



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SALE DATES CLAIMED

First public sale of Holsteins by A. C. Hardy, Avordale Farm, Brockville, May 26.

THE MCCONKEY SALE \

THE MECONEY SALE ' The average prices realised for the 34 badd of registered Holesch edities at the Oat, and Sole of the Senaroville, RAME for the 27 females. Five coses aver-aged 1000 helfers from times months too year, 166.00; 34 cover, etid. Th Will, one was unfavorable, but idding was bridge the senaroville and the senaroville of the badd of seven said a half hours over 100 bened of seven said a half hours over 100 bened of seven said a half hours over 100 bened of seven bill by the seven said the seven seven by the seven said and head of seven bill by the seven said and head of seven bill by the seven seven Prove the seven seven by the seven seven these the seven by the seven seven seven the seven seven by the seven seven the seven seven by the seven seven seven the seven seven by the seven seven seven the seven seven by the seven seven seven the seven seven seven seven seven seven the seven se



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A TWO-YEAR-OLD RECORD

Balicor. Farm and Bairy-I am advised bior. Farm and Bairy-I am advised brown and the second second second base and second second

DUAL PURPOSE HOLSTEIN IN P. E. I.

DOAL PURPOSE BOLATEIN IN P.E.1. Becouting at Unicoria, P.E.1., F. O. (Dark, of Lefs & Chark, soild, p.E.1., F. O. (Dark, of Lefs & Chark, soild, p.E.1., F. O. (Dark, of Lefs & Chark, soild, p.E.1., F. O. (Dark, of Lefs & Chark, Soild, P. (Dark, Soild, Soild, are hard to best as bod. a four-year-old distribution of Maked Soil and Soild On Soil the present year, up, 45 the legination of the present year, up, 45 the legination of damptice of U-lacoba Johanna." a noted pase sum and show cow that soild for Soild damptice year also a heavy produced, and things the dawn for Make of the P. (Dark damptice years also a heavy produced, and things the courter food heavy food head and port. The weighted 1.60 pormal and brought Mr. (Dark Edist, A. etcer under 15, Yeary weighted 1.500 and another int

1 year and 3 months, the marvellous weight of 1.110 alive and 610 dressed beef. This is considered a record weight for a fifteen months' animal any breed in this

This is considered a record remain that freen monity animal any breed in this "The set." The set." The set." The set was pure broken for a low set. outree broken folicient array of a low set. set and a noted prine wis-part, and ma nover broken in prade com-sain and the new parts of 500 cm like islam for firen months of an inhibit labor for firen months of an inhibit and the set of the set of an inhibit understand why Hold Satu is set of understand why Hold Satu islam or set understand why Hold Satu islam or set where-changing farm.

HIS LAWFUL WIFE

HIS LAWPUL WHFE Complications i.e. being the observed of a grine shows a deal man is concerned. The observed in this story was being married, and the par-sen ashed the usual querilon. The year "Do you take this woman for your lawfi wilder This time a bit ioutor." "The fast of the second a bit ioutor." "The second second to get angry the second second to get angry the second second second second to swith! The second was the second of which is second second second second the second second second second second the second seco

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to eith pips for marke. Many farings have said to themselves "I understand sky the amount of grain the the animal does not give better require. The said generation of the said to the said to the interaction of the said to the said to the immediate results as soon as you con-stood speed to a said the said to the sood speed to a said the so of the said the sood speed to a said the sood speed to a said the sood speed to

aprime. Wr. Geo. Mapses, of Rondhead, says, "After experi-menting with a great many most foods I was con-vince there was very little written in order of them have rear dealer insisted on my trying Royal of the same fields, asying its was different from the others 1. Tapp fields, asying ophinon, is certainly in a singen by fixed as a conditioner and it is the best I have ever mad."

Mr. Norman C. Charlton, Scott, Sask., says, "I am from Ontario. I have fed your Stock Specific in Brownsville. My cows, while using it, made the largest average and tested five points over average at C. M. P. at Brownsville. I'know you make the highest class condition r on the market."

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office near A 260, package will lead reverse the near adult job feed poor A 260, package will lead reverse draw and the second sec of package. J. C. Addition of the second second second and the second seco

r. Faulda of London, Ont., one of the largest w birds in Canada, says: "While using Royal Pr iffic 1 have never had disease in my flock. derfut results in uning your Guess in my flock.

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in people. Mr. F. W. Moore, of Bradford, states, "I had a minimulte horse go hame and tried soveral remedies, also rour agent, where veterinary but it did not improve Your agent, where veterinary but its did not improve funiment. To my surplayed one to try Royal Purph Infiment. To my surplayed one bottly effected a per manent enre."

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