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J. W. WHEATON, B.A. - Editor
D. T. McAINSH, Manager

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each month, with invistrations.
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Table of Contents

The Militia's Opportunity483
Is it Fair or Just?483
Harvest will Soon be Here483
They Want to get at it483
To Promote Better Seed Grain483
Canadian Dairymen! Wake Up!484
Some Figures that Speak484
Western Canada's Possibilities for
Wheat Growing484
Central Experimental Farm485
Before the Railway Commission486
Young Stallions Overworked486
Sore Necks and Shoulders486
Canadian Seed Growers' Ass'n 487
To Regulate U. S. Seed Trade 487
Farm Implements and Conven-
.00

Farm Implements and Conven- iences488
Maintaining the Partition of On
Maintaining the Fertility of Or-
chards489
Improving the Sulky Plow489
Butter-making in Holland490
New Use for Skimmed Milk490
The Scientific Feeding of Cows. 491
Nature About the Farm492
THE HOME WORLD
Love Lightens Labor493
A Visit to the Old Home493
Home Courtesies493

Hickory; a Tale of the Lakes 49
The Boys and Girls495
In the Kitchen490
Health in the Home497
Sunday Afternoon497
In the Sewing Room498
Hay Making499
Alfalfa for Hay499
Succession in Forage Crops499
Dry Paris Green499
Gossip About Exhibitions500
Questions and Answers50
About Rural Law501
Turkey Chicks50:
The Roosts503
About Canadian Bank Notes50
Combination Shorthorn Sale50
D. C. Flatt's Sale of Yorkshires 50.

The Farming World

And Canadian Farm and Home

Vol. XXIII

TORONTO, 1 JULY, 1904

No. 13

The Militia's Opportunity

W OULD not the farmers of this country have been greatly benefited had all the time and energy wasted in the recent Dundonald discussions about military equipment and control been expended in devising ways and means of solving the farm labor problem and of providing sufficient help to gather in the big harvest of 1904.

The extermination of weeds and the gathering in of the coming harvest are the two chief problems confronting the farmer at the present time. If the country's welfare is the aim of all military expenditure, then let the "sojers" be marched in force into the root, corn and grain fields, now awaiting recruits. We submit, and we believe, the Minister of Agriculture will agree with us, that there is no lack of arms and ammunition here. A hoe, a rake, and a pitch-fork awaits each member of the force, and with these he can do effective work in the defence of his country. Under Captain Practical Farmer, the hoe, the rake, and the pitch-fork drill, will develop muscle, encourage thrift, and prove most effective in solving for the great farming community their most serious problems. Besides, it would have a most wholesome effect in allaying some of the "jingo" spirit which is becoming a little too prevalent for the nation's welfare.

Is it Fair or Just?

Our contention that the basis of distributing grants to agricultural societies in Ontario should be changed, is strongly supported by some recent figures obtained by Supt. Cowan. These show some glaring discrepancies. One society receiving a grant of \$380, paid out \$2,410 for agricultural purposes, while another society receiving \$800 paid out only \$1,488 in prizes for agricultural purposes. third society received a grant of \$660 and distributed only \$640 for agricultural exhibits. Then there is the Nottawasaga Township Fair, which received a grant of only \$80 and paid out \$1,019 in prizes. Compare this with a leading district society of Eastern Ontario receiving a grant of \$800 and paying out only \$1,125 for agricultural purposes, and we have a most striking example of how unfair is the present plan of distributing grants to agricultural societies according to membership. If the basis of division were according to the amount of money expended in prizes for purely agricultural purposes this inequality would not exist. The society doing the most effective work would then

get its just share of government funds.

Surely there can be no two opinions in regard to the need for rearranging the distribution of the grants to agricultural societies on a more equable basis. What do our readers think of it?

Harvest Will Soon be Here

The growing season for hay and grain crops will soon be over comes the harvest. For this, farmers in the older parts of the country are, perhaps as well prepared as they were a year ago, so far as help is concerned. In Manitoba and the North West Territories they are better prepared, and with the extra supply that will go forward from older Canada, when the harvest excursions begin, are not likely to suffer. In the East, and especially in Ontario, many a well-todo farmer, who has been accustomed in the past to hire nearly all his work done, has had to turn to himself to save the situation. We have met several during the past week or two who would be willing to pay for all the help required if they could get it. But it cannot be had, and so a large expenditure of their own muscle and energy is necessary.

They Want to Get at it

Canada is very much to the front these days. Her agricultural resources are not only attracting thousands of people who wish to settle on the land. but also the large manufacturing concerns, chiefly of the United States, who see in this country's development a large market for their produce. So great is the desire of American manufacturers to gain a foothold in this country, that the question of reciprocity with Canada is discussed by them at every convention or gathering of any kind. The importance attached to the Canadian field as a market for manufactured goods, chiefly implements, carriages, etc., is shown in the following extract from a recent issue of the "Implement Age":

"The greatest foreign opportunity for American implement manufacturers is in Canada. Nowhere else in the world is there so great an agricultural empire awaiting American methods of cultivation. Canada is larger than the United States, and larger than the United States, and wheat has been grown successful. Good wheat crops have been traised in the Canadian Northwest on the sixty-second parallel, 13 degrees north of the international boundary. We can get an idea how far north the Canadian wheat belt extended when we consider the fac: that the thirteenth parallel south of the international boundary runs through Tennessee and Oklahoma."

Canada could have no better advertisement than this. The very desire of these people to reach the Canadian field is, in itself, proof that the great Canadian West and the new lands of Ontario are all that the most optimistic claim them to be. Truly, we have a rich heritage, which Canadians should be first in developing.

To Promote Better Seed Grain The association formed at Ottawa

a week ago for the improvement of seed by selection, is destined to have a far-reaching effect upon the grain growing possibilities of Canada, What is surprising, now that we know what can be done in the improvement of seed by selection, is that something of this kind was not attempted years ago. Had a similar movement been inaugurated, say twenty or thirty years ago, when the farmers of older Canada began to experience a gradual falling off in grain yields there might be a different story to tell today in regard to average crop yields per acre. While a large share of this decrease in yield has, no doubt, been due to a failure on the part of farmers to properly maintain the fertility of their lands, yet it cannot be denied that much of it has been caused by the sowing, year after year, of inferior seed, lacking in vitality and the power to give vigorous growth to its offspring. One may have the richest kind of soil, and yet if the seed sown lacks in vitality a maximum crop yield cannot be expected. The same reasoning holds good in the animal world. A farmer may have an abundant supply of the very best kinds of foods for fattening purposes, and yet if the animal to which they are fed, has not had developed in it the power to lay on flesh profitably, the maximum of beef production, both in quality and quantity, cannot be realized. The quality of the seed put into the soil has much to do with the crop yield, in quality as well as in quantity.

The new association starts under most favorable auspices. It has, through Profesor Robertson and Mr. Clarke, Chief of the Seed Division, the backing and active co-operation of the Dominion Department of Agriculture. The four hundred or more persons who took part in the recent MacDonald seed grain competition are already enrolled as active members, besides a number of farmers who have made seed selection more or less of a close study. Work has, therefore, begun under favorable auspices, and the success of the movement is reasonably assured.

We bespeak for the association the

active support of every grain grower. Though building more for the future, perhaps, than for the present, its work cannot but have a most beneficial effect upon Canadian agriculture.

Canadian Dairymen! Wake up!

Our English correspondent digresses a little in this issue, and instead of his regular letter on English market topics, gives our readers a most interesting description of butter-making in Holland. It is only about twenty-five years since the first butter or cheese factory was opened in that country and the progress made, especially in butter-making, has been most marked. Today, Holland exports to Great Britain alone nearly 30,000,000 pounds of butter, or a total of 62,000,000 pounds to all countries. No fewer than 324 head of cattle are maintained on every 1,000 acres of arable land.

Dairy progress in Holland is not without interest to Canadian dairymen. Countries like Holland, Denmark and Norway are our strongest competitors in the British butter market, and a study of their methods will be profitable.

One part of their practice which Canadians could very well copy is that of pasteurizing cream or milk for butter-making. This practice, as our correspondent points out, vastly improves the quality of the butter. We cannot hope to compete successfully with either Holland or Denmark in supplying the British market with a first-class butter product unless the quality sent over is uniformly good. And this cannot be secured under co-operative dairying methods unless pasteurizing is more generally practiced by our creameries.

While we have good reason to feel proud of the position of Canadian dairying today, yet there is no getting around the fact that we are woefully behind in some things. One of these is the slowness with which our dairymen take up new and up-to-date ideas that are essential to the successful practice of modern dairying. While we are hesitating, other countries are forging ahead and will soon overtake us, if they have not already done so. A pasteurizing outfit is recognized by experts as essential to successful butter-making on the co-operative plan. And yet, how many creameries are there in Canada that have a complete outfit? Very few, indeed, and at the progress we are now making it will be a decade or two before we accomplish anything worth while in this direction.

This seeming apathy of our dairymen to properly equipping their cheese factories and creameries, is not due altogether to a lack of appreciation of these things. The "penny wise and pound foolish" policy of cutting down the price of making to the lowest possible notch is largely responsible for it. One naturally concludes spon seeing some of the filthy, ramspon seeing some of the filthy, ramshackle places where Canadian cheese and butter are made, that our dairymen are only in the business for a season or two, and will gradually drift away to some other fields: like the miner when he has worked one mine for all it is worth, seek new pastures. But there is nothing of a temporary nature about the business. For nearly forty years Canadian dairying has been a fixture, and present indications are that it will continue to be one for many, many years to come. Then, why try to run it in this hand-to-mouth fashion. Give the industry stability and permanence in appearance as well as in fact, by supplying good, up-to-date buildings. equipped with the latest and best machinery for turning out the finest product. Other countries are doing it, and we must do so if our present position is to be retained, let alone making progress. Besides, it will pay in improved quality and higher prices. .42

Some Figures that Speak

Since 1885, over 66 per cent. of the cattle and calves received at Chicago market have been slaughtered. In 1893 the percentage ran up to 73. Only one year did it go below 60, and that was in 1889, when only 59 per cent. of the receipts were slaughtered. In 1903 the total receipts of cattle and calves were 3,709,008, of which 1,205,609 were shipped alive and the balance converted into dressed meat at the big packing houses. Of the 2,407,300 slaughtered, 245,409 were calves. Previous to 1885 the average percentage slaughtered was 42.

During 1903 the total exports of live cattle from the United States and Canada totalled 511,172, and of sheep 241,092. The total exports of dressed beef for the same year was 1,359,222 quarters. This was an increase of over 350,000 quarters as compared with 1902.

The exports of live cattle from Chicago to Great Britain in 1993 totalled 259,227 head, which sold at Chicago at prices ranging from \$4.35 to \$5.80 per cwt. The prices paid in London per lb. dressed weight, sinking offal, ranged from 8½c. to 14½c. In 1902 the figures were 138,811 head; Chicago price, \$4.75 to .87.50 per cwt.; British price, 10½c. to 16½c. per lb. dressed weight. The lowest prices were in 1890, when 339,535 head were shipped, realizing from \$3.75 to \$5.75 per cwt. at Chicago, and 8½c. to 13c. per lb. in London.

Taking the past twenty years, the figures representing the total receipts of cattle and the number converted into dressed meat bear a pretty constant relation to each other. The dead meat trade has obtained a firm foothold and the much larger number of the cattle reaching Chicago are taken by the big packers. That the business is a profitable one goes without saying. Other centres, such as Omaha. Sioux City, Kansas City, and St. Louis, are miniatures of Chicago in

pushing the dead meat trade, which is now the big industry of the country.

Canada should have this trade established, too. If, say, 60 per cent. of our live export cattle were slaughtered here, we would have an industry that would be worth something to the country. Cattle values would be better and a more stable market provided.

Western Canada's Possibilities for Wheat Growing

The title "Granary of the Empire," as applied to Cana'a, has been disputed by an authority who claims that we have not sufficient railway accommodation to enable us to produce wheat in sufficient quantities for Great Britain's needs. Mr. George Johnston, Dominion Statistician, claims that this contention is without foundation.

He reasons this way: Manitoba alone has 2,200 miles of railways. A strip five miles on each side of the railways would give 14,000,000 acres of land. At the average rate of production in that province during the past eighteen years-18.65 bushels per acre-this would yield 261,000,000 bushels of wheat or 60,000,000 bushels more than the United Kingdom has imported in any one year from all the wheat exporting countries of the world. The North-West Territories have at present about the same mileage of railways as Manitoba, which, computed in the sar a way, would yield another 261,000,000 bushels of wheat

If the whole wheat-growing area of Canada, that is, the area which would be able to produce wheat, if under cultivation, be taken, the production would exceed the present demands of Great Britain for imported wheat by 66 to 1. The total area in Canada capable of producing wheat reaches 770,500,000 acres. One can picture what its possibilities are when once brought under the sway of the settler.

The wheat acreage of Manitoba, actually under cui:ivation, has grown from 623,45 acres to 2,240,000 acres during the past thirteen years; and the corresponding yield from 7,200,000 to over 53,000,000 bushels. Thus, Manitoba alone already produces one-quarter of Great Britain's demands. If only the last thirteen years' growth is repeated within the next thirteen, the day when Canada can supply the United Kingdom with all the surplus wheat she needs is not so very far

Beef Cattle Sketches

Professor C. S. Plumb, of the Ohio State University, has published a neat little book entitled "Little Sketches of Famous Beef Cattle," that promises to fill an important place among beef cattle breeders. It gives a brief sketch of some of the leading beef animals that have won distinction, chiefly in the United States. It sells at 60c.



Team of imported Clydesdale mares, winners at the Gait Horse Show; first for draught team, first for single draught and first and second in class for age. Owned by wind. A. Aitcheson, Guelph, Ont. Imported by T. H. Hassard, Milbrook, Ont.

Central Experimental Farm Visited

In the Ottawa Valley section the spring season is usually from two to three weeks later in opening up than in central and western Ontario. But this year is an exception to this rule. To our surprise when visiting in that district about the middle of the month we found vegetation as far advanced at Ottawa as in Toronto, or a superior of the province has been favored with better growing weather and more favorable conditions for seeding operations.

ther and more tavorable conditions for seeding operations. Situated as it is in this highly favor-ed section, the Central Experimental Farm is looking exceptionally well. At the time of our visit it presented a At the time of our visit it presented a most attractive appearance, the trees and shrubbery looked their best, and the fields indicated a bountiful harvest a few weeks hence. In general appearance, the Farm has greatly improved in recent years. The ornamental trees and shrubbery have reached a large growth and give a picturesqueness to the landscape that is most effective. It is indeed a delightful spot on a bright June morning, and one would gladly linger longer did not other duties compel a bastening on.

The work of the Farm has settled

hastening on.

The work of the Farm has settled down to a somewhat regular routine each year though none the less effective on that account. Correspondence has greatly increased, and the number of inquiries for information and help on a great variety of farm topics, prevent the staff from undertaking much new experimental work each year. However, some new experiments error undertaken each year nual report. The Director, Dr. Saunders, has this year undertaken some important work in testing the different grades and varieties of wheat as to the quality of flour they will produce. This is much needed. Every grade and variety of wheat will not make the same quality of flour, and consequently of bread. It is most important, therefore, that the exact properties of each in this respect should be known and the results published. The experiment might, perhaps, be more conclusive, if the flour of each grade or kind were made into bread. The work of the Farm has settled

One of the most important and farreaching pieces of work carried on
is that of producing hardy varieties
of fruit for the North-West, This
work was begun several years ago and
hardy trea have, for the most part,
been produced by crossing the Sheriand Crab with the apple (mostly Russian varieties). Over 160 of these
trees are now fruiting and there
should be some reliable data forthcoming shortly. These trees are allowed to grow with little or no pruning, as it is not considered advisable
ng, as it is not considered advisable
and the state of the state of the state
A great many of these hardy varieties have been sent from the Central
Farm to the West to be tested. They
have been planted at various elevations, ranging from 400 feet, at Winnipeg, to over 4,000 at the Rocky
Mountains, and reports generally indicate that they have wintered well.

The Central Farm is strong in Hor-

ticulture. Under W. T. Macoun's direction some valuable work is being conducted in this department. The fruit trees on the Farm, as elsewhere, suffered much from the past severe winter and consequently a great many of the less hardy varieties will have to the sum of the sum should prove most valuable to orchardists as a cover crop. Most of the fruit trees have low heads. This gives ease in gathering fruit, the fruit does not blow off so easily, and the trees are better protected. A most interesting spot is the orchard of Wealthy apples. It is "Wealthy" in more than name. The orchard was planted in 1896, the trees being very part of the proceeding from years was \$1.21 per acre. In 1902, 250 barrels per acre were sold off this orchard.

Mr. Macoun is carrying on a very

per acre. In 1902, 250 barrels per acre were sold off this orchard.

Mr. Macoun is carrying on a very practical test in growing vegetables under canvas, the main object being to keep off insects and other pests. So far, it has proven most successful, and vegetables of all kinds grown under canvas were much farther a growth than those planted at the same time outside. And what is more, not a worm or pest of any kind was to be seen. In the Experimental Farm report for 1903, full particulars of this work for last year are given. It will pay everyone interested in garden work to look this up. In 1903, an enchouse oxyto fee and off, see hold in the form of the seen of the se



Three-year-old shire stallion Moulton William 21657, a prize winner in Englan Imported and owned by Messrs. Bawden & McDonald, Exeter, Ont.

stock foods sold and made in Canada. These foods will be fed to hogs only and the results noted. Tests will also be made with tankage, blood meal and various green feeds. The cattle feedvarious green feeds. The cattle feeding experiments begun three years ago, will be continued. Last year's work, as stated in the annual report, does not show much profit for the feeder. In fact, a loss is reported for nearly every experiment. This is largely accounted for by the fact that stockers and feeders were high in price and the price had dropped market.

The price was the price had dropped market were ready for market.

A most interesting feature of the experimental plats is the growth of clover. A plat of Sanfoin shows most marvellous growth. Mr. John most marvellous growth. Mr. John Fister, Farm foreman, and who also has charge of the Experimental Farm apiary, thinks this plant will revolutionize the bee-keeping industry. This year the plants began to bloom on May 28th, and the bloossoms were most vigorous looking on June 15th. It blooms much earlier in the searce. most vigorous looking on June 15th. It blooms much earlier in the season than the ordinary clover, and is thus of value for honey purposes between tree blossoming time and the period when the common varieties of clover come into bloom. In addition to this quality, Sanion is of great value as a fodder errop, being very much similarity of the property of the propert

exceptionally good. This delicate piece of mechanism, as operated at the Farm, has discounted the hen in

the percentage of eggs hatched.
Dr. Fletcher and Mr. F. T. Shutt
were absent, the former in the Maritime Provinces and the latter in Bri-Columbia, engaged in special k connected with their respective of entomology and J. W. W. departments

Before the Railway Commission

Before the Railway Commission
The newly appointed Railway Commission met in Toronto last week and
heard representations from a variety
of sources, touching mostly on freight
rates and railway equipment. The
railways were largely represented by
prominent members of their staff and
by council. The grievances as set
iorth by those representing the agricultural interests, chiefly the fruit
trade, have been frequently referred to
in these columns. In opening the
case of the fruit growers, Mr. W. H. in these columns. In opening the case of the fruit growers, Mr. W. H. Bunting, President of the Ontario Fruit Grower's Association, made a most admirable appeal. He did not ask for too much, but stated in a plain and convice security the deficient purpose. concise manner, the difficulties under which the fruit trade is laboring and which, from the impression made upon the members of the Commission, seem in a fair way to being rectified. In fact, the case was well and strong-ly put by all the fruit growers' repre-sentatives. Mr. Bunting asked for re-dress, as follows: (1) A reduction of the classification

of fresh fruit in less than car lots, from first to third class, and of car lots from third to fifth class, and of car lots from third to fifth class; (2) that apples and pears in boxes and barrels should be in the same classification; (3) that car lots of fruit should not

(3) that car lots of fruit should not contain more than 2000 bls; (4) that the cost of icing of cars en route be changed from a flat rate to one covering the actual cost to the railways for this service.

Mr. E. D. Smith, M.P., Winona, Ont, followed. He emphasized two special needs which the fruit growers, or better, shippers, required to be supplied by the railways; (1) quicker transportation; (2) and cars when wanted. Severe losses resulted

from the shipper not being able to get cars when wanted. In regard to the movement of freight, they had not much to complain of so far as car lots were concerned. The greatest grievance in this respect was with les than car lots. There appeared to be no system about the moving of this kind of freight. He estimated that fully 25 per cent. of the fruit go-ing in less than car lots is delayed en route. Better accommodations at railway stations for storing fruit railway

should be provided.

Mr. R. J. Graham, Belleville, specially representing the apple shippers, emphasized the need of better equipemphasized the need of better equip-ment of cars for fruit, and especially for apples. He made a strong point by stating that he was not so much concerned about freight rates as the producer had to pay that. It was producer had to pay that. It was equipment and quick transportation that concerned the shipper most. A that concerned the shipper most. A great deal of fruit was seriously damaged because of lack of equipment, and Canadian railways are very much behind in this respect. He considered one week was a sufficient time to order cars ahead. Both ventilated and frost proof cars were wanted. Another serious grievance was the trought. other serious grievance was the trou-ble in getting a clean receipt for goods shipped, especially at the small-er stations. The usual custom was to give one with shippers' load and count by which the railways could not be held responsible for the exact amount of the goods shipped. It was also hard to get tracing of cars when one

hard to get tracing of cars when one had gone astray.

Mr. Dawson, Toronto, took up the question of unpaid claims. This was a serious grievance. Very often the shipper had to wait a year or longer before a just claim for damage to the company of the property of the prop

ances set forth and denying others. They stated that some of the remedies asked were unfair, especially was this true in regard to the demands respecting classification of freight. Mr. J. Lockie Wilson, Alexandria, took up the question of rates on be-

half of the farmers generally. The tariff of rates should be published. He also asked that all special rates and rebates be published. In the case of cats, the grower was discriminated against in favor of the miller. The Canadian farmer was also discriminated against in regard to cattle. The Canadian farmer should be placed on the same plane in regard to railway

the same plane in repart to railway rates as the American farmer.

On the whole, a strong case was presented, which should make an im-pression upon the Commission, whose decision will not be rendered on most of the counts for some time at least.

Are Young Stallions Overworked?

Many farmers complain of the diffi-Many larmers company of the culty of getting their working mares in foal. If properly managed, a mare ought to do her share of the work and raise a colt every year. Dealing with this difficulty, "Wallace's Farmer," in this difficulty, "Wallace's Farmer," in a recent issue, says: "The owner of the mare is no doubt

partly to blame. Farm work is us-ually pressing during the breeding season and the time required to take the mare to the stallion is grudgingly given. She is driven to the horse as quickly as possible, bred, trotted home, and worked the remainder of the day in the field. If she settles to the day in the field. If she settles to the service after this sort of treat-ment it is the exception rather than the rule. If it is worth while taking time necessary to breed the mare in the first place, it is worth while to take a little more time and endeavor to settle her at the first service and not be compelled to return her two or three times. After the service she should be put in a stall away from other horses and allowed to remain there quietly for an hour or two, or longer, if possible, and then driven home slowly and kept quiet the re-mainder of the day. If it is, the in-tention to get a coli if possible no-thing should be allowed to prevent re-turning the mare for trial not only at the end of the first period but the se-cond as well. cond as well.

cond as well.
"To the pernicious practice of over-working the stallion, however, is due, more than to any other one thing, the small percentage of colts. One of our readers who was in the office last week spoke incidentally of have last week spoke incidentally of hav-ing taken a mare off to the stallion at 4 o'clock the morning before, and on being asked why, said that the horse was being permitted to serve two to five mares per day. How can a horse that is abused in this manner be ex-pected to get a reasonable percentage period to the companion of the com-pactice is more common with com-nany horses than those owned by horses than those owned by duals. The latter have individuals. The latter have some regard for their horses and as a rule refuse to allow them to be seri-ously over-worked and debilitated. ously over-worked and deoutiated. The members of some companies, however, seem to think that having invested two or three thousand dolars in a horse they must make him earn it the first year, and as a result they prematurely injure the horse in many cases, and get considerably fewer coits than they would under a less preedy notice." less greedy policy." ,52

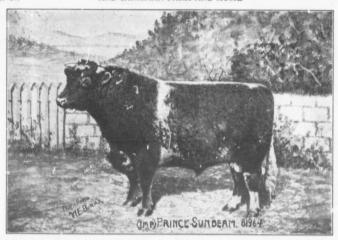
Sore Necks and Shoulders

Writing on the above subject, Dr.

When shoulders tend to become sore see that collar fits well, is kept clean, always dried at noon and never allowed to remain on horse during horse during allowed to remain on horse during meal times. Sponge shoulders with solution of half an ounce of tannic acid in half gallon of water three times daily to toughen shoulder skin. Saturated solution of alum, strong salt water, are also useful in same way, If shoulders swell and have sore souts from collar, pain enlargement. spots from collar, paint enlargement twice daily with solution of one part tincture of iodine and three parts extract of witch hazel. Should large sore, or sore tardy to heal, form on shoulder, back or back of neck, keep the collection of the col the following ointment: Iodoform, one dram; tannic acid, two drams; lanolin or lard, one ounce; mix. When lanolin or lard, one ounce; mix. When top of neck under collar becomes sore, never clip off the hair. That sonly leaves a lot of stout bristles, which the collar forces into the sore, making it worse. Keep part clean, cut out dead skin, then apply above ointment. Zine pad under collar sometimes helps in this condition. When hard tumors form in shoulder, but treatment is to dissect them out and afterwards treat the place as a comafterwards treat the place as a common wound. This also applies to boggy tumors and large, flat, fungus sores on shoulders. In clipping houses sores on shoulders. In cripping noises on which harness rests, as under saddle and under collar in heavy draft horses. Best have harness fit well at first than have sores to heal afterwards

Canada's Trade with Australia

In 1993 Canada exported to Australia, goods to the value of \$1,700,000 and imported from that country goods to the value of \$123,000 A large share of the exports were made up of agricultural machinery, timber, and manufactured goods. factured goods.



Imported Shorthorn Bull, Prince Sunbeam, a grandson of the great Scottish Archer (59893) and descended on his dam's side from the great Heatherwick Mayflower family. Owned by W. D. Flatt, Trout Creek Farm, Hamilton, Ont.

Canadian Seed Growers' Association

Canadian Seed Growers' Association
Representatives of the agricultural
interests from all parts of Canada
interests from all parts of Canada
of Canada of Ca an increase of 27 per cent. in the weight of grain produced from the selected seed as compared with the average crop of the farm. In spring wheat the increase was 28 per cent. Though this was due to some extent to better care and cultivation gener-ally, the greate, part was due to selecany, the greate, part was due to selec-tion. In addition to these, 92 per cent. of the practical farmers associated with this work reported an improve-ment in their general crops from selected seed.

To extend and carry on this work, so well begun, what was known as the MacDonald-Robertson Seed so well begun, what was known as the MacDonaid-Robertson Seed Growers' Association was formed a year ago, having for its membership those who had taken part in the three years' competition and others who had done successful work by seed selection. The competition and others who had done successful work by seed selection. The competition of the grant was a selection to the grant will continue and extend begun by the MacDonaid-k Association. Branch association be formed, and every effort selection to improve the seed in all parts of the Dominion. The seed in all parts of the Dominion than this, the work will be systematized and pure seed produced by a careful selection of the growing plants during three or more consecutive years, recognized by a certificate of registration. In other words, operating members of the Association who carefully follow the directions will

have their selected seed recorded and be granted a certificate by which such seed shall be known as puze-bred or improved seed. Our readers are quite seed shall be known as pure-bred or asseed shall be known as pure-bred or familiar with the recording of pure-bred live stock. The work of recording to be conducted by the Canadian Seed Growers' Association, will be somewhat similar, but with this distinction, that while the live stock breeder can register an animal of inferior quality, so long as the breeding is right, the plant breeder cannot do so. He must have quality as well as pedigree in the seed he offers for registration, Seed, good enough to very much greater value than ordinary grown seed.

Upon this basis the Association begins its work. To start with, records will be kept of seeds of wheat, oats, barley, flax, corn, millet, peas, beans and potatoes, grown by members according to the regulations laid down for their guidance. Work with other seeds will be laken up later. The Association will compared to the seed of the seeds will be taken up later. The Association will compared to the seed of the seeds of

the work.

the work.

The officers for the current year are:
President, Prof. Robertson: Secretary-Treasurer, G. H. Clark, Chief of
Seed Division, Ottawa.
Executive Council—The President,
Secretary, and C. A. Zavitz, O.A.C.;
G. A. Gigault, Quebec: W. F. Davidson, Quebec: C. C. James, Deputy
Minister of Agriculture for Ontario:
J. H. Grisdale, Ottawa Experimental
Farm.

Farm.
Directors—Dr. Jas. W. Robertson,
Directors—Dr. Jas. W. Robertson,
Ottawa; Prof. C. A. Zavitz, O.A.C.,
Guelph, Ont.; Prof. C. J. James, Toronto; G. A. Gigralt, Quebec; Prof. J.
H. Grisdale, Ottawa; Walter Simpson, Bay View, P.E.I. Thos. A
Peters, Fredericton, N.B.; W. S.
Davidson, Bethel, Que., George Harcourt, Regina, N.W.T.; John Mooney,

Valley River, Man.; J.H. Smith, Langbank, Ont.; J. W. Wheaton, Toronto; W. L. Smith, Toronto; W. L. Smith, Toronto; W. Thompson, Derwent, Ont.; Dr. W. Grignon, Ste. Adele, Que.; F. L. Fuller, Turo, N.S.; Geo. Batho, Winnipeg; W. D. Allbright, Sussex, N.B.; Thos. W. Drysdale, Allan's Corners, Que.; S. A. Bedford, Brandon, Man.; J. R. Anderson, Victoria, B.C.

To Regulate U. S. Seed Trade

To Regulate U. S. Seed Trade
Canada is not the only countryseeking to regulate the seed trade.
Secretary of Agriculture Wilson, at
Washington, is sending out the following in reference to impure seeds:
"The act of Congress making appropriations for the Department of
Agriculture for the fiscal year ending
June 30, 1905, contains the following:
The Secretary of Agriculture is hereby directed to obtain in the open market samples of seed of grass, clover,
or alialat, test the same, and if any
ated, or misbranded, or any seeds of
Canada blue grass (poa compressa)
are obtained under any other name
than Canada blue grass or poa compressa, to publish the results of the
tests, together with the names of the
persons by whom the seeds were offered for sale. Announcement is hereby made that the collection and testing of seeds, as directed by this act,
will begin July 1, 1904."
Will Refine Raw Sugat

will begin July 1, 1904."

Will Refine Raw Sugar

The acreage of beets at the Wallaceburg factory will be far in excess
of what it was last year. After this
season's operations are over, it is expected that some important changes
will be made. It is proposed to instate
sugar on an extensive scale. This
raw sugar will be brought in from the
West Indies or from Cuba and can be
landed at the factory without rehandling. It is not possible to get enough
beets to keep the factory running
for more than three months of the
year. With this extra equipment the
full staff of employees would be retained for ten or eleven months of
the year. the year.

Farm Implements and Conveniences

A Clean Hog Trough

"There are several methods for building hog troughs, which may be used with desirable effect; one, as illustrated in the accompanying drawing, is as follows: Drive a 4x4 post in the ground at each end of the trough and nail the trough to these posts. Put several holes for bolts in



the 4x4 posts as at A, and a hole in each end of the 6-inch board B suspended over the trough. The bolts in the post can then be changed and the board over the trough raised or lowered according to the size of the hogs. In addition to this, there should be a floor on either side of the trough at least two feet wide, and this should be made of 2-inch stuff. The idea is to keep the contents of the trough clean."

A Garden Roller

Get a piece of two foot earthenware tiling about fourteen inches in diame-ter and set it on a board as shown in Fig. 1. Place an iron rod exactly in the centre, passing down through the board about an inch and projecting



above the tiling about the same distance, that is, two inches. Now, fill in the tiling to the top with cement and broken r.cks, the cement being two parts samd to one of dry cement. Have the ends faced with the clear mixture of sand and cement, that is, with none of the broken rock appearing in view. Now arrange a handle upon the projecting iron bar



in the centre, as show in Fig. 2, and the roller is complete. Should the outer covering of tiling ever become broken by accident, there will still be left a firm roller of cement that has hardened to rocklike consistency. .52

A Substantial Driveway

A plank driveway into the barn is usually steep (to save planks), and is constantly breaking and rotting out.

Drive down stakes, as shown in Fig. I, and fill in between with stones.



rubbish and earth, packing all down firmly. When hard and full to the top of the stakes, throw some earth against the outside of the stakes, and



sod over the sides, as suggested in Fig. II. Such a driveway gives a long easy rise, is attractive in appearance and will last indefinitely.

Sewage Disposal on the Farm

Sewage Disposal on the Farm One of the modern conveniences is water supply in the farm home. This can be easily obtained where a wind-mill is in use. With a water supply it is a very simple matter to instal bathroom and water closet in its home. The great drawback to this is home. The great drawback to this is not be suitable to discharge this wa-age on the surface of the great or age on the surface of the grinto tile drains. The usual to build a cesspool. This must be made water-tight or esspool rounding soil will be polluted and the health of the family endangered. Even if made wat, r-tight it must be cleaned out frequently, a very filthy and disagreeable task. A better plan that this is now suggested, that of the

septic tank.

The civil engineering department of
the Iowa Agricultural College is now
working on a plan of septic tanks
which it is hoped will make a cheap which it is noped will make a cheap and effective method of disposing of farm house sewage. The system works well when practiced on a large scale. The experiment is being conscale. The experiment is being con-ducted with a plant for a private house which can be built for \$25 or less. It consists of three barrels ducted with a plant for a private house which can be built for \$25 or less. It consists of three barrels buried in the ground. The first two contain about 50 gallons each constituting a septic tank. The sewage enters the tank at the top of the first barrel and both barrels tull of sewage all the while. Once a year it will probably be necessary to the outcome of their streets. The third barrel is of about 30 gallons caracity and contains an auttomatic siphon which whenever the sewage reaches a certain level in the barrel, will automatically discharge its contents down nearly to the bottom. Thus in the third barrel the level of the sewage fluctuates. The siphon in the third barrel discharges the sewage upon the surface of the tile ditch. This tile ditch is 20 feet long by 3 feet wide by 3 feet deep, and is filled with sand instead of earth. The joints of the tile must be surrounded by the public so keep the sand from entering the tile. It is be surrounded by hine pebbles to keep the sand from entering the tile. It is hoped that the water passing off in the tile underdrain will be clear and pure so that it will not clog a tile drain if the outlet is into such a drain and so that it will not be objection-able to dis-harge upon toe surface of the ground if there is sufficient fall to do this.

Advertising

In advertising, the principal point is to avoid statements that cannot be fully substantiated by a practical test of the article advertised. Another point is, stick to the subject and avoid guarantees. Guarantees are useless and the public know it. In advertis-ing Herbageum the object is to induce feeders to test it and that is all. Advertising does that and Herbageum does the rest. Statements made in advertisements re Herbageum are facts, and a test fully proves them. The feeder who gives Herbageum at trial becomes at once Herbageum's friend and is seldom back-

geum's friend and is seldom back-ward about saying a good word for it, and his good word for it is the best possible advertisement. Notz.—Applications for our book, "Stock Pointers," have been so num-erous that our present edition is ex-hausted. We have received hundreds hausted. We have received hundreds of orders which cannot be filled until our new edition is out. The book is our new edition is out. The book is free, write for it at once and mention this paper and we will fill your order as soon as the new edition is out. Address, The Beaver Mfg. Co., Galt, Canada

Good Words

"I cannot say too much in praise of "I cannot say too much in praise of Herbageum." I always get good results by feeding it. I have been feeding it for two years and therefore know what I am talking about. It keeps my hens free from lice and makes them lay more eggs. I feed it to my pigs and the good results are certainly remarkable. The benefit to my horses has been alone worth more to me than I have paid for Herbageum for all my stock. I would not be without Herbageum."

SEPHEN STEPHENS.

STEPHEN STEPHENS, Glendenning, Man.

Dec. 9th, 1903.

"I have tried a great many stock foods and condition powders, but I have found nothing to equal Herbageum. I feed it to horses and cattle and I have found it of special benefit when fed to my horses that have been on the delivery wagons in Toronto."

A. H. HANN, Egermont, Ont.

Feb. 20th, 1904.

"I am satisfied that there is a good profit from the regular use of Herbageum. I feed it to my stock and the results are always satisfactory."

EDWARD HAWKINS, Micksburg, Ont.

Jan. 6th, 1904.

"I believe Herbageum to be the best thing on the market. I find it spe-cally good when fed to young calves with skim-milk."

ROBERT BARBOUR, Varney, Ont.

Jan. 23rd, 1904.

"I feed Herbageum to calves, pigs and turkeys, and it is always satisfactory. It makes skim-milk fully equal to new milk for calves and pigs."

W. E. CAMPBELL, Heatherdale, N.S.

Jan. 27th, 1904.

"I feed Herbageum regularly to my stock. It increases the flow of the cows' milk, keeps horses in good trim and is a great benefit in feeding and fattening hogs. I use it continually and would not be without it."

I. W. ROLFE, Marbleton, Que.

Jan. 18th, 1904.



Topsman of Woodruffe, son of Topsy Belle, 1st prize Ayrshire heifer under 36 months, Ottawa Dairy Test, 1903. Owned by J. G. Clarke, Ottawa.

Correspondence

Maintaining the Fertility of Orchards

Editor THE FARMING WORLD:

In view of the favorable reputation which Canadian apples hold in Great Britain and the European continent, Britain and the European continent, and the large and rapidly growing trade which is carried on in fruit of all kinds, but especially in apples, we, as fruit growers, should do everything in our power to increase the quantity and add to the quality, in face of the increased competition from other others.

increased competition from other countries.

The question, "How shall we mainstain the fertility of our orchards," will be asked by all who heard Mr. Caston, president of the Ontario Fruit Growers. Association, make the state-there of the state of th

not a complete manure for orchards having an insufficient amount of potash, and under our present system of growing leguminous cover crops, it has much more hitrogen than is net as much more hitrogen than is net against its use for the orchard is that no farmer has more stable manure than he can apply with profit to his annual farm crops, and if he applies it to the orchard, he must skimp some other part of his farm, which system, if followed for some time, will eventually run down the farm.

This system of "robbing Peter to pay Paul" is seen to perfection in Southern Wisconsin among the tobaccogrowers, where it is a common saying that tobacco ruins a farm, and a man wishing to buy a farm will steer clear of one which has grown tobacco. Here the fault is not so much with the tobacco as with the ash, and under our present system growing leguminous cover crops,

farmer.

farmer.

Tobacco being a money crop, and also requiring large quantities of manure, it is a common practice to apply the entire amount of manure made on a farm to a few acres of tobacco, which practice in a series of years will surely run down the farm.

The same argument holds good in Ontario as in Wisconsin, where they say, or at least the thinking farmers do, that if tobacco will not pay for say, or at least the uniming larmers ado, that if tobecco will not pay for its fertilizer, better go out of the business. So, before we, in Ontario run down our farms, we had better decide that if fruit will not pay to buy fertilizer for, we had better dig up our trees by the roots and plant something

The next question would be, "What shall we use?" Those who are situated near towns can buy stable manthis is impracticable. Even in favorable cases it is doubtful if for large fruit it will pay for the reasons given

In some cases as with small fruits, no some cases as with small fruits, poor land, or where a proper system has not been followed, it may be desirable for a time to use stable manures, but the successful farmer must get his nitrogen cheaper than paying 12 to 16 cents per pound for it, and he can obtain it for nothing by means of a leguminous cover crop. Of all of a leguminous cover crop. Of all the different crops advocated, I believe the dimerent crops anyocated, I believe Lucerne clover to be the best, as it will make a better growth in the dry weather, which we usually have in the fall, and also a better root growth than the common red clover, which is favorably known for this purpose. Lucerne is subject to being winter-killed, but this makes little difference where it is sown to be vlowed taken.

killed, but this makes little difference where it is sown to be plowed under in spring. The Hairy Vetch is also highly recommended for this purpose. But I would give a word of advice. Don't sow too early in the season, remember that it is a full ypple barrel rather than a luxuriant cover crop, rather than a luxuriant cover crop, early cover crops an enormous amount by itopping the cultivator too soon, and as a rule, cover crops should be soon a month cultivator too soon, and as a rule, cover crops should be sown a month later than usually advised. Never sow a cover crop until you feel sure that the apples are safe, even in case that no rain should come until picking time. This exptem pricks not produce. that no rain should come until picking time. This system might not produce such a fine cover crop, but it will produce more apples. Leguminous cover crops will provide for all the nitrogen necessary, but something else is required, or we will ruin our fruit crop through unbalanced feeding. I firmly believe that the popularity of cover crops, together with the use of stable manure, has had much to do with the cry that Canadian apples are not keeping as well as they did in former years. We all know that an excessive amount of stable manure, which is largely a nitrogenous manure, will grow a large, pale, soft apple, lacking in color, flavor, long-keeping qualities, and that indescribable element often called "snap", for which Canadian apples and the stable provided in the color of the c ing apples come from. Thus we see we can provide ourselves with an abundant supply of nitrogen and hu-mus, but we can not get in that way the potash and phosphoric acid which are also needed.

are also needed.

Experiment stations recommend a fertilizer containing 2 per cent. of nitrogen, 9 per cent. of optash, and 2 per cent. of phosphoric acid, but if a proper system of cover crops is fo'-lowed, I think we can leave out the nitrogen and use potash and phosphoric acid in above proportions. In order to obtain these materials, "common sense" would teach us to use our own waste matters, that is, bone meal and wood ashes, which at present we ship across to the United States to improve the quality of their fruit.

In bone meal the steamed will be

In bone meal the steamed will be found more economical than the raw, being less in price and having a high-er percentage of phosphoric acid, though lower in nitrogen, which is no detriment in a properly managed or-

chard. For the potash we should use the ashes produced at the farm and in adashes produced at the farm and in addition thereto the commercial potash salts, particularly sulphate and muriate of potash, which are very high grade, containing 50 per cent. of pure potash, while also shes contain only 5 per cent. on an average. Weight for weight, the potash salts mention weight, the potash salts mention ashes, and as a commercial article, the former are usually a more economical source of potash than the ashes.

G. FERN MASH.

G. FRED. MARSH, Grey Co., Out.

Improving the Sulky Two-Furrow Plow

Editor THE FARMING WORLD:

The time has come for farmers to conomize labor by using three and economize labor by using three and four-horse teams as much as possible, allowing one man, in a good many particulars, to do two men's work. The sulky plows now have rolling colters which are very much lighter in draft than straight colters. The objection has been that ir using jointers on the two-furrow plows with straight colters, the draft was too great for three horses. But since this difficulty has been overcome by a simple device to attach the rolling colter and pointer or skimmer to all simple device to attach the rolling colter and pointer or skimmer to all
sulky plows. Where known, they are
in demand, as most all farmers will
admit that if the draft can be so arranged that three horses can handle
a two-furrow plow with jointers attached, the work is so performed as
to make a better mould than without
the jointer, and at the same time preventing the growth of grass between
seed bed.
We are happy to inform the farmers throughout the country that it
has been accomplished by Mr. Delbert Woolley of this country, who has
taken out a patent for the same.

FRAMES.

FARMER, Norfolk Co., Ont.

"How do you stand?" asks the Italian when he meets a friend.
The Polish greeting: "How do you have yourself."

Butter Making in Holland

The struggle for the British butter market has always been a keen one and, generally speaking, it can truth-fully be said that in the better class butters, the European competitors have had the best of the fight. Of course such results have not been attained without great efforts, and Can-adian readers will be interested to hear what has been done in Holland to foster and encourage the industry.

to foster and encourage the industry.

Cattle breeding has always been the principal feature of Dutch agriculture, but during the last twenty-five years increased attention has been paid to the butter industry. The low he years increased attention has been paid to the butter industry. The low corn prices seriously affected the growing of cereals, compelling far-mers to replace them by fodder crops. It is remarkable to find that in a small country like Holland the number of cattle is 1,646,856, of which 967,492 are cattle is 1,040,850, of which 907,492 are milch cows. There are no fewer than 324 head of cattle to every 1,000 acres of land under grass or crops, hence it will be readily seen to what a large extent stock figures in the Dutch farming economy.

The first butter and cheese factory

The first butter and cheese factory was opened in 1879 and this was a private venture, but at a later date co-operative production came to the front and at present it predominates over individual enterprise. The transfer of butter making from the farms to the factories has much contributed to the improvement of the quality of Dutch butter. Government assistance has been given in various directions and care was taken that all necessary

information was available.

The government experiment stations, of which there are at present five with a technical staff numbering 27, made numerous experiments in 27, made numerous experiments in connection with cattle feeding and milk production. Lectures were given by government teachers of agricul-ture with a view of pointing out to owners of cattle what important ad-vantages could be secured by proper

breeding, by the cultivation and pur-chase of the most suitable feeding stuffs, and by rational feeding. It is estimated that the export of

It is estimated that the export of butter now amounts to 17½ million kilos (a kilo is 22 lbs., English) to Great Britain, 7 to 8 million kilos to Germany, and 3½ million kilos to Beginn. The export is Rotterdam and Amsterdam, while that intended for Germany, France and Belgium is, of course, forwarded by rail, consignments from the north of the country partially going in refrigerator vans. It is now nearly always packed in beechwood casks containing about 50 kilos (100 lbs) of butter, also in tubs, cases and boxes containing butter in rolls of ½ kilo or small pats of various weights. Butter intended for tropical climates is packed in air tight tins. It appears that the mode of packing formerly in vogue (double casks separated by sait) is gradually is gradually is gradually is gradually is gradually asks separated by salt) is gradually disappearing.

disappears as the butter itself is concerned it is forwarded both fresh and
salt. France and Belgium take almost exclusively fresh, Germany
chiefly fresh, whilst England and
Scotland receive slightly salted butter. Although a great deal of butter
is sold to order or through agents,
large quantities are forwarded by way
of consignments. The co-operative
factories especially dispose in this
way of their produce in Englan and
in the specially dispose in this
way of their produce in Englan which
is most official with steam power, the
most modern machinery is used. The
custom of pasteurizing both the
cream and the skim-milk is fairly gen-

eral and this vastly improves the quality of the butter at certain periods of the year. In order to make a pro-duct that will keep in the warm sea-son, a great many factories have ice-houses attached, which, however, of late years have been replaced by re-frigerating and ice-making machin-ery. In dealing with the milk, all kinds of centrifugal systems are used. Especially in those provinces where half cream cheese or skim cheese is no half cream cheese or skim cheese is made, a practically complete separ-ation of the cream is aimed at and it may be said that as a rule hardly one-tenth per cent of fat remains in the separated milk. In ripening the cream pure cultures are largely used. No matter what care is taken in the

manufacture of the butter, it is neces-sary to protect it from adulteration sary to protect it from adulteration before it reaches the consumer. The Dutch parliament have a number of stringent acts dealing with butter substitutes. The principle on which legislation is based is that all products resembling butter, in so far as they contain fats, which have not been obtained from milk, are considered to be margarine, and have as such to be transported, exported, exposed for sale, etc. Where butter and margerine are allowed to be sold together in shops, conditions must be observed.

ine are allowed to be sold together in shops, conditions must be observed that both are kept visibly separate. Infringements of the act are punishable by fine and imprisonment.

Although legislation has benefited the honest butter producer, it has not succeeded in putting a stop to adulteration and this has given rise to butter control stations, which are under government direction and inspection. The control is of a continual and stringent nature, and is of such a nature as to practically guarantee the quality of the butter produced at the factories under its again. H.W.S. d at the factories under its aegis.

New Use for Skimmed Milk

Mr. Richard Guencher, of Frank-Mr. Richard Guencher, of Frank-fort, describes a newly-invented milk-stone, or petrified milk. It is manu-factured in the following manner: By a chemical process the casein is pre-cipitated as a yellowish brown pow-der, which is mixed with formaline. Thereby a hornlike product is form-ed, which, with various admixtures, forms a substitute for horn, turtle shell, ivory, celluloid, marble, amber, and hard rubber. Handles for knives and hard rubber. Handles for knives and forks, paper-cutters, crayons, pipes, cigar-holders, seals, marble, stone ornaments, and billiard balls are now made of skimmed milk. The insolubility of "galalith," as it is called, its easy working, elasticity, and proof against fire, make it very desirable. Already 20,000 quarts of skimmed milk are dally used for this purpose in Austria.—The Dairy.

Big in Milk and Butter

The imported Guernsey cow Hayes The imported Guernsey cow Hayes Rosie, 15476, holds the year's record for both milk and butter in the advanced registry of the American Guernsey Cattle Club. During the year ending March 31st, 1904, she gave 1463,368 lbs. of milk, which yielded 714.31 poums of butter fat yielded 714.31 pounos of butter fat-equivalent to 831 lbs. of butter. Hayes Rosie was imported from Guernsey in the fall of 1902. She had been a noted prize winner at the important English shows. She consumed, dur-ing the year of test, 2,518 lbs. of shorts, 602/5 lbs. oil meal, 661 lbs. cluten, 2,232 lbs. of carrots and man-gels, and 1,322 lbs. of ensilage. She had the run of a small pasture during the forenoon of each day in summer.







twelve months and produce more butter with eight cows than is produced under the Don't delay Lern. purchasing be-cause you think that later on you will be able to get this or that imrovement or reduction in price. You are losing You are losing from \$5 to \$10 with every month's delay. Free trial to intending purchas

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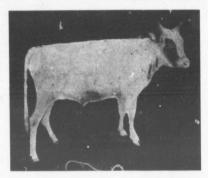
Marvel Wind Motor

Our Marvel Pumping Wind Motor has twice the power of any other wind motor of the same size built, and will run in a lighter wind.

Get our prices before purchasing elsewhere.



WOODSTOCK WIND MOTOR COMPANY WOODSTOCK, ONT.



Minto of Woodruffe, son of Minnie Clyde, winner as First Prize Ayrshire in Dairy Test, Ottawa, 1903. Owned by J. G. Clarke, Ottawa.

The Scientific Feeding of Dairy Cows

While Canada is a great dairy country and leads the world in cheese production, comparatively little attention is given to the scientific feeding of dairy cows. Our dairy men in a general way have a pretty good idea of cow feeding, and yet there is very men attention to the feeding problem will mean increased profits from cow keeping.

tor improvement. A futtle more attention to the feeding problem will mean increased profits from cow keeping increased profits from cow keeping was considered to the feeding standard, which claims that a mature animal which is being fed a ration just to maintain its weight requires daily 18 pounds of dry matter, containing the following amount of digestible nutrients: 2, pounds protein, 8 pounds of carbohydrates and 1 pound of fat or ether extract per 1,200 and 1 and 1

work is 24 pounds dry matter containing digestible nutrients as follows: 2,5 pounds carbohydrates, and 4 pounds fat per day per 1,000 pounds live weight.

Woll, of the Wisconsin Station, later recommended the following digestible nutrients for a dairy ration: 2,15 million of the following digestible of the fo

(Wolff) ration contained more protein than seemed necessary.

In a series of experiments during a period of three winters, Prof. Hacker has shown that his barren and dry cows, at rest in the stall, maintained their weight and ever gained a slight amount on a ration containing 11.85 pounds of dry matter, having digestible nutrients as follows: 62 pounds protein, 57.5 In Bulletin No. 79, he concludes: "It is tentatively suggested that the food of maintenance for a barren dry cow when at rest in stall be expressed in nutrients, 6 of a pound of protein, 6 pounds of

carbohydrates, and it of a pound of ether extract per 1,000 pounds live weight and when at work in a dairy with ordinary good care and comfortable quarters, 7 of a pound of protein, 7 pounds of carbohydrates, and .1 of a pound of ether extract he allowed per 1,000 pounds live weight or one-tenth as much per cwt.

After having determined what is a correct maintenance ration, Prof. Haceker took up the question of how much extract he allowed per 1,000 per many mstances. The question then is, should a narrow ration with a nutritive ratio of 1:45, the Wolf-Lehman modified standard, or a wide ratio of 1:60, proposed by Wolf, be followed? To solve this question, Prof. Hacker set to work and fed his cows rations having different nutritive ratios, varying from 1:0.5 to 1:0.5, or practically from 1:56 to 1:30, and he found that the wide from 1:0,3 to 1:97, or practically from 1:0 to 1:10, and he found that the wide rations were as effective in the production of products as were the narrow rations. Records were kept of all food consumed, milk and butter fat produced, or milk and butter fat produced, and the production of a pound of milk and a definite quantity of butter fat, than does a mature cow. In other words, a "balanced ration" for dairy cows should not mean a definite mutritive ratio like 1:5 or 1:7 or not pany other number, but or 1.7 or one to any other number, but a certain number of pounds of digestible protein, carbohydrates and fats, the relative amount of which should depend upon the milk and fat yielded as well as upon the weight and age of the ani-

as upon the weight and age of the animal.

To enable farmers to ascertain the amount of food which should be fed to dairy cows, Prof Haecker determined exactly how much protein and other nutrients are required to produce a pound of milk, after the food for maintenance of the animal in question has been taken

care of. From his table of results we take the following, applicable to mature cows and heifers

Net nutrients used by dairy animals for the production of one pound of milk, testing a given per cent. of fat.

			Mature Co	ws		
	Milk			Carbohy-	Ether	
T	estir	157.	Protein.			
2.5	per	cent.	.0362		.012	
3.0	per	cent.	.0397	.181	.0136	
3.5	per	cent.	.0432	.197	.0147	
4.0	per	cent.	.0467	.214	.0150	
4.5	per	cent.	.0502	.230	.0170	
5.0	per	cent.	.0537	.247	.018	
5.5	per	cent.	.0572	.263	.019.	
6.0	per	cent.	.0007	.280	.0200	
			Heifers.			
2.5	per	cent.	.0380	.188	.012	
3.0	per	cent.	.0443	.217	.014	
3.5	per	cent.	.0505	.245	.0170	
4.0	per	cent.	.0568	.273	.0193	
4.5	per	cent.	.0630	.302	.021	
5.0	per	cent.	.0693	.330	.023	
5.5	per	cent.	.0755	.358	.0250	
6.0	per	cent.	.0818	.387	.027	

Food of maintenance for both mature cows and heifers .07 pounds protein, .7 pounds carbohydrates, and .01 pounds

To illustrate the use of the above table To illustrate the use of the above table when calculating a ration for a mature cow, let us suppose we have a cow weighing oop pounds, giving daily thirty pounds of milk testing 4 per cent. For maintenance food she would require maintenance food she would require nine times ory lbs. protein, or 6g lbs.; 9 times 7 lbs. carbohydrates, or 63 lbs.; 9 times 7 lbs. carbohydrates, or 63 lbs.; 9 time of 10bs. there extract, or oo]bs. Consulting the table of mature cows giving 4 per cent. fat we find that she should be fed for each pound of milk produced (which in this case is 30), 497 lbs. protein or 1.40 lbs.; 30 times 2.14 lbs. carbohydrites or 6.2 lbs.; 30 times 0.15 lbs. fat, or 58 lbs. Adding to this the food of maintenance as above fig. or59 lbs. fat, or .28 lbs. Adding to this the food of maintenance as above figured we obtain a daily requirement for this cow of the following nutrients: Protein, 203 lbs.: carbohydrates, 12.72 lbs.; and fat of lbs. If, however, the cow weighted 1,100 lbs., and yielded 40 cording to this method of figuring abe would require the following nutrients for maintenance: Protein 77 lbs., carbohydrates 7,7 lbs., fat 1,1 lbs. For milk production, protein 1,73 lbs., carbohydrates 15,8 lbs., and fat .70 lbs., arbohydrates 15,8 lbs., and fat .70 lbs. The former ration would have a nutritive ratio of 1,71 amount of dry matter a sow should be fed. Prof. Hacker finds that the Wolff standard which recommends 24 to 25 pounds of dry matter to 1,000 pounds of weight, is fairly correct for mature dairy cows. One important conclusion which we find in Bulletin 79 of the Minnesota Station is: "An excess of nutriment in a ration does not seem to invyield of butter fat, but results in an increase in body weight and a relative decrease in dairy products. While a diministration of the core and the second of the control of the minimum of the control of the minimum of the control of the crease in body weight and a relative de-crease in dairy products. While a diminished nutriment supply resulted in a de-creased gain in live weight and a rela-tive increase in dairy products."

The City Boarder

"Wal," said Farmer Wilkins to his city boarder, who was up early and looking round, "ben out to hear the hay-cock crow, I s'pose?" and he winked at the hired man.

"No," replied the city boarder, "I've been out tying a knot in a cord of wood."

Farmer Wilkins scowled at the hired man and wanted to know why he was not getting to work at milking those cows.—The Furrow.

Nature about the Farm

EDITED BY C. W. NASH

The other day I visited a friend's farm in this county and there found that a small colony of Barn Swallows had established themselves under his driving shed. The birds, he said, had redriving shed. The birds, he said, had re-sorted to this shed to nest for several years and as he had always protected them they had become very familiar, some of the nests were so low that I them they had become very familiar, some of the nests were so low that I could casily reach them with my hand; the birds, however, were so conident of their safety that they are also conident of their safety that they are also conident of their safety that they are also birds were working for insects over the orchard and around the barnyard, but towards evening the cows were brought up and put in a field just opposite the shed, for a time As soon as the cows arrived, all the swallows in the shed left their nests and the birds which had been working outside also went over, and the whole colony circled and hovered about the animals, eagerly feeding upon the flies which infested them. That Barn Swallows are particularly fond of hawking for flies around domestic animals is well known and may be ob-

Swallows are particularly fond of hawking for files around domestic animals is well known and may be observed in any pasture field where stock are grazing. In this instance, however, the birds evidently knew the rule of the farm, and those engaged on the nests waited until the cows were brought up, so that they could get their evening from their eggs.

There is no more useful or interesting family of birds known than the Swallows. In this province we have six sp. cies, viz.: the Purple Martin, Barn Swallow, and Rough-winged Swallow, the last a rare species, and as it closely resembles the Bank Swallow and Rough-winged Swallow, it may often be confused with it. A peculiarity of the family is that all of them, with the exception of the Bank Swallows, have abandoned their original nesting sites and have attacked them. ity of the family is that all of them, with the exception of the Bank Swallows, have abandoned their original nesting sites and have attached themselves to buildings erected by men. The Barn Swallow and Cliff Swallow construct the outer shell of their nests of must of the state During the summer, and while with us in Canada, all the swallow tribe us in Canada, all the swallow tribe are purely insectivorous, usually capturing their food while on the wing, but on the cold, windy days that frequently occur in early spring the insects upon which they depend are too chilled to fly and then the swallows seek them in open places on the ground.

In the latter part of July and the beginning of August the large female ants swarm from their nests, each one prepared to found a colony for herprepared to found a colony for her-self were she permitted; the swallows, fortunately for us, however, interfere, and gorge themselves upon these creatures, the Purple Martins partic-ularly destroying vast numbers of them, even after the ants have di-vested themselves of their wings. When this has taken place the Swal-lows alight on the ground, pursuing lows alight on the ground, pursuing the control of the property of the con-trol of the property of the colors. The Chimney Swift, what a compa-what resembles the swallows in its aerial habits, belongs to another fam-ily of birds altogether, but like them

ily of birds altogether, but like them it has forsaken its old manner of nesting and now resorts to our buildings for that purpose.

INSECT LIFE

I find that we are not to be exempt from the attacks of the cutworm this season, for they have now appeared in force and are making up for lost time; the cold weather and backward condition of vegetation undoubtedly condition of vegetation undoubtedly delayed their appearance near the reface of the soil, but having arrived, they will feed later than usual before changing to the pupa state. If they are doing serious damage, the poisoned bran bait, composed of 1 lb. Paris green, 6 lbs. bran, made into a moist (not wet) mash with sweetened water, should be used. Distribute the bait in small lumps over the infested land and the insects will be destroyed. So far, insects have been remarkably scarce, butterflies are rare, and but few dragon flies have appeared, even the pestilent mosquitoes have

but few dragon flies have appeared, even the pestilent mosquitoes have failed to torment. The green Rose aphis, however, is troublesome, but can be kept in check by frequent waterings with soap solution or by using Pyrethrum powder. I prefer the latter if only a few plants have to be protected.

FARM FORESTRY.

It is often said that the farmers of Ontario compose the one perfectly independent class of the community; independent class of the community; no matter what may happen to the other industries in which our people are engaged, the farmer's lands will always supply him with all the necessaries and many of the luxuries of life. This was perfectly true so long as the land bore its fair proportion of trees, but of late years, owing to the excessive and wasteful clearing which has been done, the farmer has become dependent upon the miners and the railways for their fuel, and will (if prompt steps are not taken to prevent it) shortly have to resort to prevent it) shortly have to resort to some system of irrigation for water. Substitutes for wood and coal as fuel may perhaps be found, but none for water; this essential element has, howwater; this essential element has, how-ever, always been supplied by nature in sufficient quantities to render suc-cessful agriculture possible, but of late years, although the supply has been ample, the loss by evaporation and surface drainage has been so rapid that even in seasons having a normal rainfall water is apt to be

water.

Water management is the great problem of the future, upon the solution of which our continued success in agriculture depends, and with the solution of this problem, the problem of re-stocking our waste lands with trees is most intimately connected, for without having a proper proportion of our land under trees, no rate of the production of the properties of the productive agriculture.

The close investigations of modern naturalists have proven that all forms of life and all conditions in nature are dependent one upon another and that

dependent one upon another and that no change can take place in one condiin change can take place in one condi-tion without corresponding changes in others; in no case is this more clearly exemplified than in the rela-tionships which exist between the fortionships which exist between the est cover and the water supply. To support plant life, the soil must consupport plant supply of water. This support plant at, the son must con-tain a constant supply of water. This supply can only be kept up by the maintenance of reservoirs, from which the water will gradually and evenly circulate through the soil by natural underground drainage. A true cover, properly located operates as such as underground grainage. A true cover, properly located, operates as such a reservoir, by conserving the moisture it receives from dissipation, by the evaporative influence of sun and wind, and secures proper circulation by changing surface drainage into gradual sub-drainage, it keeps the soil porous, and by its deep-reaching root system insures the percolation of waters to the sub-soil. Whereas, on bare land or cultivated fields, the rain as it falls compacts the soil, thus preventing percolation and causing rapid drainage over the surface, while the land finds its way immediately underground and thus furnishes the desired constant supply by its circulation. This explains the constant, even flow of springs and streams in a wooded Inis explains the constant, even flow of springs and streams in a wooded country, while after deforestation we find the springs dry up, and the streams are either raging muddy torrents or dry gullies. Floods and droughts alternate according to the season and the fields are croded and crops washed out by every rainfall.

While the conservation of the water while the conservation of the water supply is, perhaps, the most urgent reason for immediate action in tree planting, yet there are so many other advantages to be derived from it, that the attention of the public can-not be too quickly turned to it.

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Labor, if we would but perceive it, is one of the greatest of earthly blessings. It rewards with health, contentment of mind, cheerfulness of spirit, and sound, refreshing sleep, few of which blessings of life are long enjoyed by those who do not daily, in one form or other, labor.

Love Lightens Labor

A good wife rose from her bed one

A good wite rose in morn,
And thought with a nervous dread
Of the piles of clothes to be washed,

Of the piles of clothes to be washed, and more
Than a dozen mouths to be fed.
"There's the meals to get for the men in the field,
And the children to fix away
To school, and the milk to be skimmed and churned;
And all to be done this day."

It had rained in the night, and all the

wood Was wet as it could be;

Was wer as it could be;
There were puddings and pies to bake, besides
A loaf of cake for tea.
And the day was hot, and her aching

nd the day was hot, and her aching head Throbbed wearily as she said: If maidens but knew what good wives know

They would be in no haste to wed."

"Jennie, what do you think I told Ben Brown?"

Called the farmer from the well, nd a flush crept over his bronzed

brow,
And his eyes half-bashfully fell.
"It was this," said he, and coming

near,
He smiled, and stooping down,
Kissed her cheek; "'Twas this; that
you were the best
And dearest wife in town!"

The farmer went back to the field, and

The farmer went back to the field, and the wife, absent way, Sang snatches of tender little songs She'd not sung for many a day; And the pain in her head was gone, and the clothes Were white as the foam of the sea! Her bread was light and her butter And as golden as it could be.

And as golden as it could be. "Just think!" the children all cried in

"Just think!" the children all cried in a breath, "Tom Wood has run off to sea! He wouldn't, I know, if he only had As happy a home as we." The night came down and the good wife smiled he softly said.

To herself, as she softly said:
"Tis so sweet to labor for those we love-

It's not strange that maidens will wed!"

A Visit to the Old Home

I recall a wedding I once attended, where the bride went from her father's house a slender lily-white girl, who had been brought up most delicately in an atmosphere of ease and luxery. She accompanied the husband of her choice into a rough,

hard pioneer life in a new country, and there, far from neighbors, from church privileges, or any social advantages, she spent many years. Children came rapidly. Her cares were numerous. She grew old and hardhanded, and prematurely bent. The country of the control of the country of the coun

mother who went home. It was a mother rested, refreshed, and wonder-fully rejuvenated; freed from the fet-tering grooves, and with new strength, new interest, and new de-light in living. Such a new lease might be given to many a tired out mother.

When mother is blue, or a little dif-ficult, or set too much in her ewn way quite to suit the headstrong wil-fulness of the juniors, bear with her and set about bringing back her sun-shine. Half the everyday sorrow of this earth would melt into thin air if we were all more anxious to give joy than to get it, to be rather love-worthy than grasping, and to make others happy whether or not we were happy ourselves.—Margaret E. Sang-ster.

Home Courtesies

In the close relations of members of the same household and the constant contact through long association, there is apt to be a lack of the friendly greetings and delicate attentions which are given to visitors and



Baby's Bath Time

ance of a cat in a strange garret; but the unfamiliarity wore off, the rough hands smoothed, and she found that

hands smoothed, and she found that leisure had attractions of its own. People did not know her when she emerged from the enfolding solitude of her far-off home, but bit by bit they discovered her to be the same that she used to be, and when, after three swift months had gone, she said that she must turn her face again to husband and children, it was pre-dicted that they would hardly know her there. Nor was it quite the same

strangers in the household. Children strangers in the household. Children are commonly not trained to sweet courtesies in their treatment of parents and one another. Husband and wife do not preserve their first gracious care of each other. But thoughtful and loving little services sweeten home life and pour the oil of joy over daily experiences. When a Ausband or son is prompt and helpful in placing son is prompt and helpful in placing does not feel happier? An act of courtesy cultivates in its performer more appreciation and attachment.



CHAPTER XXI - (Continued.)

"Tom has been showing me his hick-ory summer-house," Elsie replied with a forced laugh, "and I have been scolding him for spending so much time in fixing it, when he had so much other to do.

"He must have taken it very serious-

ly," said Genie, in mock gravity.
"The work he took seriously enough, "The work he took seriously enough, whatever you may say of the scolding. Just look at it. The walls of hickory poles, the rafters of hickory branches, the roof of hickory leaves. And the seat. Whoever saw a more cozy one? Built of roots and branches, poles and twigs, all hickory, from within the summer-house itself, and twined together as only an artist could do it." "I believe Tom is made of hickory, on said Genie, approving too," said Genie, approving too," and this time Tom laughed.

CHAPTER XXII.

The short spring was soon over. Then came the glory and heat of the summer, drying out the brushwood upon Tom's fallow, turning it into tinder, and making it ready for the match to set it

Burning a fallow is an exciting event backwood's life, and full of fas-Burning a fallow is an exciting event in backwood's life, and full of fascination. The hissing, the crackling, the roaring, the lurid flames, the intense heat, the sweep of the demon, as with rapid strides he throws his forked tongue round every object, grasping the whole in his satanic licking, are intensely interesting. And then there is the element of danger. Man delights in struggle; and when, in a contest with the fiery element, he says sternly: "Thus far shalt thou go and no further;" and the devastating god is conquered, he feels a hero.

thou go and no further;" and the devas-tating god is conquered, he feels a hero. Tom's fallow was a noted one that year. It was the first to be eut and the first to be burned. There were many others in the neighborhood; but the fact that his was chopped and owned by the dead man come to life again, the lost returned, increased the interest.

returned, increased the interest.

People liked Tom. They were glad to see him back again. He had more dash and spirit than other young men whom they knew; and the tale of Jim inheriting the whole of his father's property, having got abroad, added to Tom's population. larity, while it detracted from his bro-ther's. Hence, when Tom's fallow was alight, they turned out in a body to fight fire and keep it from spreading. Fences had to be torn down and the rails thrown on the soft earth, but the fire had to stop when bidden, and the woods were saved; while in the fallow all de-bris was burned away, leaving nothing but charred logs and blackened stumps show the gray, earth alight, they turned out in a body to fight above the gray earth.

Tom likewise had the first Bee. Every-body in English Canada had bees in those days, particularly in logging time. A man who cleared his fallow with a single yoke of oxen, aded only by the members of his own family, was con-sidered behind the time—slow—policy— stack—by Din to Every settler must take an afterproon to do the whole thing. take an afternoon to do the whole thing. Neighbors all round, men and large boys were invited, and every one who had a yoke of oxen. Horses were not in it. They were all right for the roads, and plowing and harrowing, and all that; but for logging! Bah! The men would sow at the very idea. And then the proportion. Four men and a boy to a team, as nearly as they could make it. One to drive the oxen, the boy to hitch the chain to the logs, and the other men to pile the logs into heaps. And then the whiskey—ah, the whise. And then the whiskey—ah, the whise. were invited, and every one who had a yoke of oxen. Horses were not in it

And then the whiskey—ah, the whiskey! A little brown jugful—just enough to wet their whistles once in a while—when excitement was at the highest—but not to get drunk! Perish the thought. How would the men face the merry maidens, who danced round the supper tables and laughed in the gloamif they dared to even dream of such a thing

a thing?
"I tell you it's going to be a big bee,"
said George Ross, on his return from
business in the village.
"What did you hear about it?" Genie

asked.
"It's all the talk at Linbrook. Every
other fellow I met is going. What's
more, a man you'd never dream of seeing at a logging bee will be there."
"Who is that, pray?"
"Guess"

"Guess. "Johnston the fiddler?"

"Robert Thornton of the store?"
"He may come, but he's not the one."
"Dr. Hartman?"

"To attend to the wounded? What do you take him for? Guess again." "I give it up."

This was pretence, for she fully sus-

pected.

"Edgar Armstrong, of course."

"Gracious! What can he do? Besides, his school don't close till four."

"The news came straight. They say he's going to teach a couple of extra hours and close at two."

"I would not tell Elsie," said Genie. "Let it be a surprise to her."

"All right. It's astonishing the number of girls are going as well. I guess know the supper is to be there, and his mother will have charge of it."

"She is very proud of her boy, I know," said his sister.

"I tell you what, Genie, any girl that catches Tom Potter will be a lucky woman."

"Oh! I don't know," she answered, with a toss of her head. "He's good enough, but there are others." "Are Elsie and you going?" George

asked

"Yes. We meet there after school closes. Elsie will take over a basket of cakes to surprise them."

cakes to surprise them."

Before one o'clock the next day half a dozen yoke of oxen had arrived on the scene, ready for the fray; while into the fallow men strolled in twos and threes, until they numbered a couple of score o' more. They soon got into score or more. They soon got into earnest discussion, and as Tom and Jim appeared with their respective yokes of black and white oxen, all eyes were turned upon them.

"I move that the Potter boys take the lead themselves," cried Harry Tait. "Jim against Tom—the Whites against the Blacks."

"Bully for you!" roared Jack Slim-min. "Them oxen's splendid colors for a lead."

min. "Them oxen's splendid colors for a lead." of sat, boys," shouted Tom.
"Noos who you like for leaders; but, Tchoose who you like for leaders; but, Tchoose who you like for leaders; but, and the there. A man is never captain at a bee on his own fallow." "Who has a better right?" insisted Tait. "Tom's little black steers may be young, but they're gritly. They pull like all creation, and I'd match 'em against Jim's white oxen any day." So would, I, yelled another youth. "So would, I, yelled another youth. "Shake hads over it, then," returned Tom, with a laugh. "We'll have the fun of it anyway."

of it anyway.

Interest deepened at once "Now for tests," said Adam Jenkins, the oldest man in the group. "I. Di-vide fallow in two halves. 2. Jim and Tom to draw cuts for best choice. 3.

Each man to have four teams and hands.

4. Bad finish forfeits the race."

"Jenkins for umpire," cried Slimmins, and Tait seconding, it was agreed

Preliminaries were soon arrange

to.

Preliminaries were soon arranged—
the side next the clearing staked off in
the middle and the opposite centre
marked by a red flag. Then the leaders
started side by side, flanked by their respective followers.

Jim's big white oxen had grown old
at the business. Nothing surprised them.

Jim's big white oxen had grown old
at the business. Nothing surprised them.

Were obeyed the strong out Gee there'
were obeyed the strong out Gee there'
long necks and pull; and when Jim, with
the chains over a huge rounder, yelled
at them, they stuck the toes of their big
white hoofs into the soft ground, and
bearing all their weight on the yoke,
fairly rushed things; and Jim laughed
at the idea that Tom's four-year-old
blacks could touch his seasoned whites.

But Tom was not unprepared. For a
month past he had fed full measures of
were young and skittle, and though they
were young and skittle, and though they
were young and skittle, and though they
hardened for continuous work than
learlened for continuous work than
learlened for continuous work than
learlened for continuous work than

their yokes sometimes, they were better hardened for continuous work than Jim's whites, which had only been fed

Jim's wintes, will also a side to take it easy for a "Well have to take it easy for a while," Tom said in an aside to his three handspikers, "till Buck and Bright get used to it. Then well make things hum. Half an hour now is neither here or there."

(To be continued.) 34

In Egypt the usual words of greeting are: "How do you perspire?"

RED ROSE TEA IS GOOD

THE BOYS AND GIRL

The Story of a Hero

From Harper's Young People I N 1871 the steamship Swallow left the Cape of Good Hope bound for England. Among the passengers was a child of two years and a nurse. The lady had also brought with her a huge, handsome Newfoundland dog. huge, handse called Nero.

ange, nandsome Newfoundland dog, called Nero.

The voyage had lasted about six days. No land was visible and the island of St. Helena was the nearest point. The day was a beautiful one, with a breeze blowing and the sunstance of the sunstance o

vessel had lost her hold of the leaping, restless little one and it had fallen overboard into the sea. The poor woman, in her despair, would have fung herself after her charge had not strong arms held her back. But sooner than it can be written down something rushed quickly past her; there was a leap over the vessel's side, a splash into the water, and then Nero's black head appeared above the waves holding the child in his mouth.

mouth.

The engines were stopped as soon as possible, but by that time the dog was far behind in the wake of the vessel. A boat was quickly lowered and the ship's surgeon, taking his place in it, ordered the sailors to pull for their lives. One could just make out on the leaping, dancing waves the dog's black head, holding something scarlet in his mouth. The child had on a little jacket of scarlet cloth and it gleamed like a spark of fire on the dark blue waves.

dark blue waves.

The mother of the child stood on The mother of the child stood on the deck, her eyes straining anxiously after the boat and the black spot upon the waves still holding firmly to the tiny scarlet point. The boat seemed fairly to creep, though it sped over the waves as it never sped before.

fore. Sometimes a billow higher than others hid for a moment dog and others hid for a moment dog and child. But the boat came nearer and nearer, near enough at last to allow the surgeon to reach over and lift the child out of the dog's mouth, then a sailor's stout arms pulled Nero into the boat and the men rowed swiftly back to the ship. back to the ship.
"Alive?" shoute

back to the ship.
"Alive?" shouted every lip, as the boat came within hail of the steamer; and, as the answer came back, "alive" a "Thank God!" came from every

heart.
Then the beat came to the ship's side. A hundred hands were stretched out to help the brave dog on board, and "Good Nero," "Brave dog," "Good fellow," resounded on every side. But Nero ignored the praises showered so profusely on him. He trotted sedately up to the child's mother and with a wag of his dripmother and with a wag of his dripmother and side of the side of t

The mother dropped on her knees on the deck, and, taking his shaggy head in both hands, kissed his wet face again and again, the tears pour-ing down her face in streams. Indeed, there was not a dry eye on board. One old sailor stood near with the tears running down his weather-beaten brown face, uncon-

weather-beaten brown face, inconscious that he was weeping.

Well, Nero was for the rest of the voyage the pet and hero of the ship and he bore his honors with quiet digand the bore is known rewell une singboard are bore is known rewell used in the life. It is a surficial, however, to see
how, from that time on, he made
himself the sentinel and body-guard
of the child. He always placed himself at the side of the chair of any
person in whose arms she was, his
eyes watching every movement she
made. Sometimes she would be laid
on the deck, with only Nero to watch
her, and if inclined to creep out of
on the deck, with only Nero to watch
her, and if inclined to creep out of
in the skirt of seth, facted firmly
drew her back. It was as though he
said, "I have been lucky enough, Miss
Baby, to save you once, but as I may
not be so lucky again, I shall take
care you don't run any such risks in
the future."

care you don't run any such risks in the future."

When the steamer reached her destination, Nero received a regular ovation as he was leaving the vessel. Some one cried, "Three cheers for Nero!" and they were given with a will. And "Good-by, Rero," "Good-by, good dog," responded on every side. Every one crowded around to give a pat on the head as he trotted

down the gang-plank. To all these demonstrations he could only reply with a wag of his tail, and a twinkle of his faithful brown eyes. He kept very close to the nurse's side, and watched anxiously his little charge's arrival on dry land.

He was taken to the home of his little mistress where he lived, loved and honored, until he died of old age, with his shaggy gray head resting on the knee of the child (now a woman) that he had saved. His grave is in an

the knee of the child (now a women and that he had saved. His grave is into English churchyard, in the burial plot of the family to which he belonged and is marked by a fair white stone, on which is engraved:

"Sacred to the memory of Nero." His portrait hangs over the chimney piece of an English drawing room, beneath which sits, in a low often looks up at Naired gritten who often looks up at Naired gritten who often looks up at Naired gritten who was the list how he sprang into the Atlantic Ocean after her and held her until help came. until help came.

He Saw the Finish

Little Leonard, while out walking with his nurse, saw a blacksmith shoe-ing a horse, and upon returning home said: "Mamma, I saw the man who makes horses today."

"Are you sure you did?" asked mamma. "Of course I am," replied Leonard.
"He had one nearly finished when I saw him. He was just nailing on his hind feet."

A Correction

In the announcement of the results In the announcement of the results of our recent prize competition, the third prize was, by mistake, credited to John Hubbert, Kemptville, NS. It should have been Fanny Burrell, Kemptville, who wrote the essay, as printed, which secured the third prize. We regret the mistake



Going to the Picnic

The basket was very heavy when our walk to the woods began, And so I ate some cookies and gave some more to Nan. And when we saw the frosted cake, we thought it wouldn't pay To carry it any farther; so we ate it on the way. We felt so very thirsty and tired with our load That we ate some juicy peaches as we rested by the road. We ate some more things by and by, and now we rather dread To reach the grove, for how can we have a picnic with only buttered bread

IN THE KITCHEN

The Proper Care of Lamps

It is not an uncommon thing for women who are fastidious in other matters to pay little or no attention to lamps except to fill them when ne-cessary and trim the wicks when they

cessary and trim the wicks when rhy become uneven.

Lamps should be kept perfectly clean on the inside as well as on the outside. They should be carefully examined and filled each morning, and when necessary cleaned out and trimmed. The burner of a lamp should be especially looked after, but this is the part most often neelected. The be especially looked after, but this is the part most often neglected. The fine holes in it, or the "gauze" through which air is admitted to the flames, should be kept entirely free from oil and dust. The little machinery which moves the wick up and down must also be cleaned out when necessary. also be cleaned out when necessary.
If the lamp is a large brass lamp with
a tube for ventilation running clear
through the front to the burner, so
that air ascends to the wick from beneath, be careful to examine this
space, for it is likely to become
cloked with dust and burned-off particles of the wick.

If the wick needs trimming, take a

If the wick needs trimming, take a match or smooth bit of wood and gently rub it over the edge of the wick, after turning the wick down until the metal tube holding it is on a line with the lower edge of the burned out, crusty rim of the wick. The metal tube acts as a guide for the

Whether or not lamps need cleaning and trimming, they should be filld with oil every day. They burn etter when the fount is full of oil. When the inside of the fount is found to have a sediment, the residue of oil should be poured out and thrown away, or strained and used for other household purposes, such as clean-ing mouldy or damp woodwork in the cellar or in combination with boiling sing mounty or damp woodwork, in the cellar or in combination with boiling cellar or in combination with boiling sink in the kitchen. Use only the best and clearest oil for lamps. Cheap kerosene often gives forth unpleasant odors and does not burn brightly. Never leave a lamp turned low. It creates gas and uses up as much oil as when it burns brightly. If it is necessary to have a light during the night in a sick-room use a timy night had been supported by the sight in a sick-room use a timy night lamp. It is not to be supported by the night in a sick-room use a timy night lamp to the support of lamps are used, it is better to keep them in a little closet by themselves than to expose them on a shelf in the kitchen, where they are

a shelf in the kitchen, where they are sure to collect dust.

Three Good Ones

ORANGE MARMALADE.-Remove the ORANGE MANMALABE.—Remove the seeds from—but do not peel—twelve large or fifteen small oranges and six lemons. Cut both into thin slices. Pour three quarts of cold water over them and let stand for forty-eight hours. Put into a preserving kettle and cook slowly until tender. Add six pounds of sugar, if desired very sweet, add more and cook until the consist.

pounds of sugar, if desired very sweet, add more, and cook until the consistency of ordinary marmalade.

FRESH FISH CAKES—Have ready mashed potato, either hot or cold, and to two cups of this allow two tablespoonfuls of butter and one egg. Pet with the potato an equal quantity may be compared to the consistency of the control of the c sauce with which to moisten the mixture and it seems too stiff, soften it with a very little milk. Form into cakes, fry slices of bacon in their own fat, and after taking them out fry the cakes in the fat that is left in the pan.

the state of the s

STRAWBERRY PUDDING.—Make pint of pineapple jelly and 'hree-fourths of a quart of strawberry jelly for these, using canned fruit, juice and gelatine. Decorate bottom of mould with crystallized fruit and blanched almonds, placing a thin blanched almonds, placing a thin lower than the second of the for these, using canned fruit, juice and gelatine. Decorate bottom o latter cannot be secured, use rose fol-

To Get Rid of the Odor of Onions

Graters, knives or other utensis used in the preparation of onions should be rinsed in cold water immediately and washed with a little soda. A brush can be used not the grater. For the breath, a little sugar eaten after the onions will banish the odor,

as will also coffee or parsley moisten-ed with vinegar. Follow with a thor-ough rinsing of the mouth and teeth with a few drops of tincture of myrrh

Chamois is one of the few things washing if wrung directly from the soap suds without rinsing in clear water. The latter process tends to harden it

harden it.

—Lettuce and green peas cooked together make a dainty summer dish. Few people know that lettuce is as good when cooked as spinach. Boiled with young peas the flavor is delicious. Also it is very wholesome.

—One of the reasons why spinach is such a valuable food is that it is such an excellent butter carrier. City dwellers need more fats than most of them get, and butter is almost the

them get, and butter is almost the best fat in the world. Oil is better, but it is too expensive for every one

Raisins for fruit cake are much improved by cooking. Let them soak slowly and them simmer until the skin is tender.



More than half the battle in cleaning greasy dishes is in the soap you use, If it's Sunlight Soap it's the best.

Splendid Cook Book FREE

HIS book is without doubt, the the best of its kind ever published. The price of one dollar is really far too low. Ten dollars would not cover the value of the

useful information contained in this excellent volume. One of the notable features is the latter portion of the book which is

devoted exclusively to sick room cookery; and the treatment before the doctor arrives, of persons suddenly taken ill or meeting with an

The book contains altogether, over one thousand recipes which have been most carefully compiled, with the help of friends in the British Isles, France, Germany and the United States.

Grouped together in black-face type at the commencement of each receipt, is a statement giving the kind and quantity of ingredients required. The book is bound in substantial oilcloth cover for the

We will send the book free to any one sending us two new subscriptions at 60c. a year.

ADDRESS

The Farming World

90 Wellington &L West TORONTO, ONT.

HEALTH

IN THE HOME

++++++++++++++++++++++++++++ The Healthful Home

The essentials of a healthy home are: I. A salubrious location as regards the surrounding country. 2. A healthful site as regards position, soil and environment. 3. A properly constructed house, with proper arrangements for heating, ventilation and admission of sunlight. 4. A conjugate the proper arrangements for heating, ventilation and admission of sunlight. pious and pure water supply

If the location is known to be especially malarious in character, this alone should be sufficient to condemn it, as this poison is one of those which produce not only serious but often fatal disease.

If circumstances compel the selec-tion of a home in a malarious locality, care should be taken to ascertain the probable source of the poison, also the direction of the prevailing wind. These two points having been satisfactorily settled, let the spot selected for building be located in such a manner that it shall be between the source of malaria and the prevailing gind

After the immediate locality has been determined, the selection of the house is still a matter of much im-

It is essential that there should be good surface drainage in the vicinity of a dwelling, not only to afford easy means of disposing of the waste water of the dwelling, but to carry away quickly the water which falls in heavy rains in excess of the ability of the rains in excess of the ability of the soil to absorb, and the melted snow of spring, which the frozen ground can not take up. No opportunity for stagnant water should be allowed about a dwelling. It is evident, then, that the centre of a knoil or gentle rise of ground from which the surface alopes in every direction is a most desirable spot for a dwelling.

A south hillside gives not only good drainage, but protection from north winds in winter, and a greater amount of sunlight. A dwelling house should always front the east or south so that each of the chief rooms of the house may receive a flood of sunlight at some time during the day.

A porous soil possesses great advantages over any other. The least salubrious are the clay and other soils which hold water in great quantities.

All soils, not excepting the most All soils, not excepting the most compact, are pervious to both air and water in some degree; a loose gravely soil admits both in very large quantities. This air in the soil is termed 'ground air.' Both ground air and ground water are at best more or less impure and dangerous to health. Carbonic acid gas is present in very considerable quantities. These impuri-ties result from the decomposition ties result from the decomposition of the large amount of animal and vegetable matter which is constantly undergoing decay upon the surface of the ground during the warm months of the year, and which is washed down into the soils by the rains, where the same processes of decay continue, being favored by the constant moisture and comparatively uniform temperature existing just between the product of the product of the product of decay, and bring other decomposing and decomposable substances to deposit in the soil. the soil.

Fine Salt SUNDAY

The crystals of Windsor Salt are as pure and white as flakes of snow-and they dissolve easily. Butter makers who have been using salt said to be "just as good" as Windsor Salt, will see the great difference at once, if they will use it.

Windsor Salt

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AFTERNOON *****************

A Prayer

O Heavenly Father, the author and foundation of all truth, the bottomless sea of all understanding, send down, we beseech Thee, Thy Holy Spirit into our hearts, and lighten our understand-ings with the beams of Thy heavenly grace. We ask this, O merciful Father, not in respect of our deserts, but for Thy dear Son, our Savior, Jesus Thy dear Son, or Christ's sake. Amen

What Jesus Did

What Jesus Did
It may not always be easy to tell
what Jesus would do, in the changed
circumstances of our modern life, but
we know pretty well what Jesus did.
In what he did "he has left us an example that we should follow His steps."
The fact that Jesus did certain things
is the strongest possible argument for
our doing them. The fact that Jesus
submitted to bapism is the great motive
for his disciple to "fulfall all righteousnoss." The fact that he prayed is worth
all that has ever been said in behalf of
the practice. The fact that he regularly
and systematically attended the synathe practice. The fact that he regularly and systematically attended the synagogue is the great reason why we should attend the public worship of God. If he in whom "dwelt all he fullness of the Godhead bodily" found it necessary or advisable to observe external realigious rites and public ordinances, surely whose need of all the we have much more need of all the means of grace and aids to faith and

The Name that All may Say

At a church gathering not long ago At a church gathering not long ago a Chinese convert gave a short address, in which he spoke of the great delight he had found in the Christian life as compared with that he had formerly lived. His English was very broken, and it was only with difficulty that we could catch his meaning. But there were two words which he frequently used and which he seen. quently used and which he pro-nounced with ease and clearness. They were the name that is above that is above every name: Jesus Christ. He stum-bled over many other words, but these he uttered without d'acrity or hesitancy.

There was a fitness in this. The name that is dear to the heart of every Christian, Chinese or English, is not only the sweetest in any language, but it is a name that belongs to every race and sounds pleasantly upon the tongue of any believer. Yet this best and easiest of names, if flippantly used, falls harshly and with a discussion of the control There was a fitness in this. which one is capable. .42

You Will not be Sorry

For being courteous to all.

For doing good to all men. For speaking evil of no one. For hearing before judging.

For holding an angry tongue. For thinking before speaking. For being kind to the distressed. For asking pardons for all wrongs. For being patient towards every-

body. For stopping the ears of a talebearer.

For disbelieving most of the ill re-

IN THE SEWING ROOM

May Manton's Hints

SHIRT WAIST 1830 STYLE 4747

The long drooping shoulders of the 1830 period have indeed taken the world of fashion by storm and are to be seen on the newest shirt waists as be seen on the newest shirt waists as well as on those of a more elaborate sort. This very attractive model is eminently simple and is suited to al-most all wistings, but is shown in white linen lawn with banding of cross stitch embroidery in white and pale blue. Beneath the band at the plain when preferred, the hall the plain when preferred, the plain when preferred, the plain when preferred in the plain when plain when preferred in the plain when plain wh

The waist consists of the yoke, in The waist consists of the yoke, in two portions, fronts, back and box plait. The yoke is shaped by means of shoulder seams and the full blouse portion and sleeves are joined to its lower edge. The box plait is joined to the right front and laps over onto the left and the neck is finished with a regulation stock.

YOKE WAIST 4736

Combinations of muslin and lace always are charming but never have been more effective than at this pre-sent time when both are offered in unprecedented variety. The dainty



1747 Shirt Waist, 1830 Style, 32 to 40 bust.

4736 Yoke Waist

wast snown is liade of safer white Persian lawn with the yoke and frills of Valenciennes lace, applique of em-broidery and belt of messaline satin, but the list of equally satisfactory materials is almost limitless. The model is an admirable one and can be made, as is this one, unlined, or over the fitted foundations when it becomes the htted foundations when it becomes suited to the many soft silks and wools of the season. The deep, scal-loped yoke is eminently becoming and the fall of lace below makes a most graceful finish at the same time that it adds to the breadth of the shoul-

ders.

The waist consists of the lining, which is smoothly fitted, front, back and yoke. Both front and backs are gathered at upper and lower edges and droop over the full belt. The yoke is separate and arranged over the whole and the sleeves are soft and full with groups of tucks above the wrists which provide additional fulness for the drooping puffs.

CHILD'S COAT 4737

Loose, box coats make the smart-est of all wraps for the little folk and are made of a variety of materials, silk, linen, cloth, cheviot, pique and duck, each being correct for its spe-cial season and service. This one can cial season and service. This one can be plain, as shown in the small

sketch, or finished with the orna-mental collar as preferred, and can be closed with buttons and loops of cord or buttons and buttonholes in double breasted style. The model, of natural colored pongee stitched with corticelli silk and trimmed with silk braid, is charmingly pretty and at-tractive, but cloth and washable fa-brics possess undoubted advantages for warm weather wear.

The coat is made with fronts and back and is fitted by means of shoulback and is nited by means of shoulder and under-arm seams. The sleeves are full, gathered into straight cuffs, and the collar is quite separate and arranged over the coat after they are sewed into place.

GIRL'S COAT 47.34

Loose costs are the smartest of all smart things for little girls and are shown in a variety of attractive materials and colors. This one includes an inverted plait at the back, which always is becoming, and allows a choice of round or square collar. Cloth, cheviot, silk, linen, and pique all are worn, with collars of the material or contrasting with it as pre-



ferred, but the model, from which the drawing was made, is of brown cloth with the collar and cuffs of tan color finished with handsome banding.

finished with handsome banding.

The coat consists of fronts and back and is fitted by means of shoulder and under-arm seams. At the neck is the big collar and the sleeves are simple full ones, gathered into straight cuffs. The back is laid in an inverted plait that provides additional fulness and the fronts are lapped one over the other and closed in double breasted style.

The price of each of the above patterns postpaid is only 10 cents. Send orders to The Farming World, Morang Building, Toronto, giving size wanted.





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> Temiskaming - TO -

Hon. E. J. Davis, Commissioner of Crown Lands, Toronto.



Some Live Farm Topics

Hay-Making

Before another issue of THE FARM-Before another issue of The Farma-iso Would reaches its readers, the ma-jority of them will have begun hay-ing operations. In some sections the clover crop will be a light one. But this is not generally true. In the Ort-tawa district a week ago we saw some as fine fields of clover as one would want. Excepting the short clover crop in some sections, the hay crop promises to be a good one. Timothy, generally speaking, promises a large return.

The important thing, now that a

a large return.

The important thing, now that a good crop is assured, is to have it added to the control of th

To go into the details of hay-mak-

that many farmers have not mast red yet.

To go into the details of hay-making would be unnecessary here, as every farmer is, or ought to be, familiar with them. There are, however, and them to the plant the supplies the plant the sup is constantly passing from the roots, through the stall and out into the open air from the leaf. After this root supply is cut off by the mowing machine, what is wanted is to have the leaves pump out what remains before their structure is destroyed. Therefore, clover should be cured as quickly as possible, which is best done by free exposure of all the leaves swath, the leaves on top will quickly become brown or black, while the test is are quite full of sap, and both the leaves and stalks on the under side will be quite green. Therefore, shortly after it is cut, clover should be shaken up with the tedder, or raked so as to allow the leaves to have free be shaken up with the tedder, or raked so as to allow the leaves to have free access to the air as soon as possible. How to do this in the best way must be determined by the haymaker him-

Curing timothy is not such a diffi-cult process, if ordinary care and judgment are exercised. If cut on the early side it will be more appetiz-ing and more suitable for dairy cattle and sheep, though it will not, perhaps, have as much food value as if cut later. Fairly well matured hay is bethave as much later. Fairly well matured hay is bet-ter for fattening stock, though it should in every case be cured and in the barn before the seeds ripen suffi-ciently to shell out. Our yiew is that better results will be obtained, everything considered, by cutting hay on the early side. It is more palatable, and pound for pound more satisfac-tory for most animals.

Alfalfa for Hav

To have good hay from our alfalfa field, we must be sure and cut it early. The very best fodder and cut it early. The very best fodder and, perhaps, the very worst may be taken from the same field and all owing to a few days' difference in the cutting.

days' difference in the cutting. Farmers who have been in the habit of growing red clover are inclined to let lucerne get too ripe before cutting, thinking that it should be as far advanced in bloom as the red, which, however, is a mistake. Alfalfa rapidly increases in fibre as it nears maturity and consequently decreases in digestibility. It cut at the right time, a very nutritious palatical red in the right time, a very nutritious palatical capter in the handline.

table hay is secured with a little additional care in the handling and curing.

Considerable of the value of the plant is found in the leaves, and in curing we must retain all the leaves possible. Avoid exposure to sun and rain, especially the former. If the swath be left exposed to a bleaching sun until it is dry, we will not have the best results. I would rather rake and coil before it is dry, while still tough, and allow some time in the coil to cure.

The impression that alfalfa is hard

The impression that alfalfa is hard cure is wrong, those who have to cure is wrong, those who have grown it most claim it to be as easy as red clover, though it will not stand as red clover, though it will not statute the rough handling that other hays or clovers will, owing to the ten-dency its many leaves have of falling as they become dry.

The value of alfalfa as a fodder is

Owing to its high protein content it is very valuable for young growing stock, milch cows, hogs, etc. Scientists

it is very valuable for young growing stock, milch cows, hogs, etc. Scientists say it is worth as much for feeding ing as wheat bran, ton for ton. The old idea that it was injurious to horses is being exploded. Horsemen who grow it are feeding it to their horses and find excellent results. It is very palatable, and as horses are very palatable, and as horses are very palatable, and as horses are very find of it, it should be fed in A field of alfalfa, when rightly handled, gives a large yield of one of the best fodders a farmer can store up for his stock of every kind. Experiments have shown that alfalfa contains the greatest proportion of digestible matter when about one-third in bloom. If you have much, start the mower when you see the blossoms just coming. Don't cut too much at a time, and coil before quite dry, and you will find comparatively little trouble in producing a fodder that stock will leave out chop to eat.

Huron Co.

Huron Co.

Succession in Forage Crops

If soiling stock is to be practiced successfully it is important to have a succession of green fodders through-out the growing season, with each in its best stage of growth for feeding. There should be no breaks in the suc-cession and each crop should be used as nearly as possible at the time when it contains the largest amount of food constituents. The Connecticut Experiment Station found, by several years of experiments and practical observation in the practice of soiling, that the following crops gave excellent results and gave a continuous growth throughout the season. This was brought about by carefully sowing and having the crops ready to feed in regular succession:

Kind of Folder. Rye fodder. Wheat fodder Clover. Grass from gras Oats and Peas. Oats and Peas. Oats and Peas Lover Rowen (I Soja Beans. Rowen Gross, fr Cow Peas.	Sept. 1 Sept. 5-19 July 20-30 s land April 10 April 20 April 30 S June 1 from No. 3) May 25 Om grass land June 5-10	. May 20-June 5 June 15-25 June 15-25 June 25-July 15 July 10-20 July 20-Aug 1 Aug. 1-10 Aug. 10-20 Aug. 20-Sept. 0 Sept. 5-20 Sept. 90-30
Barley and Peas	Aug. 5-10	Oct. 1-30

There are few of these crops but could be grown in Ontario. Those which could not be grown to advantage would be replaced by corn, lucerne, or some other suitable forage crop. However, from the above table crop. However, from the above table be to hardly seen that it is possible to hardly seen that the possible to have the possible to hardly seen that the possible to have the possible the possible to have the possible the possible to have the possible th ing, each one coming in at a time when it is of the most value for feeding farm stock.

A. P. MacVannel, Perth Co., Ont. 38

Dry Paris Green

Dry Paris Green
It is the usual practice to put Paris
green on potatoes wet. This entails
a large amount of heavy work carrying water around a big field. Out in
Minnesota, Paris green is applied dry,
and does the work just as effectively
and with mutch less labor to the operand with mutch less labor to the operand with mutch less labor to the operbut a few pounds, which can be carried on the shoulders, and two rows
can be done at the one time. Forest
Henry, one of the Institute workers
of that State, in describing this method, says. "A man can easily walk
over fifteen acres a day, and do better
over fitteen acres a day, and do better
tato beetles was the only object. The
Paris green does not collect in drops
when put on dry, as is the case where
put on with water. It can be used
when the vines are dry as well as wet,
as it is a heavy powder and settles
into the leaves, and is not easily
blown off." It is the usual practice to put Paris reen on potatoes wet. This entails

Will be Sold

The entire plant of the Wiarton Beet Sugar Manufacturing Company, Limited, will be sold by public auc-tion in Toronto on July 15th, 1904. The factory was completed and equipped in 1903.

Over-running Their Contracts

At Raymond, Alberta, beet growers are over-running their contracts in planting. Over 3,000 acres are planted. There has been some good rains, so that everything its growing well and things look promising for a big beet crops.

Lamb Fence and Gates

London, Ontario. The H. R. LAMB FENCE CO., Ltd. Winnipeg, Manitoba.

Please Mention The Farming World when writing Advertisers.

Gossip about 1904 Exhibitions

Live Stock Entries at St. Louis

Live Stock Entries at St. Louis
Dates for the closing of live stock
entries at St. Louis are as follows:
Horses, assess and mules, July 16,
1904; cattle, July 20, 1904; sheep and
goats, August 20, 1904; swine, August
20, 1904; poultry, September 10, 1904;
dogs and cats, September 10, 1904;
carload lots of cattle, O-tober 1, 1904;
carload lots of cattle, O-tober 1, 1904; outhern breeding cattle, October 1004

The dates for exhibition of live stock will be as follows: Horses, asses, and mules, August 22 to September 3; cattle, September 12-24; sheep and goats, October 3-15; swine, October 3-15; poultry, October 24 to November 5; logs and cattle, November 14-19; Southern breeding cattle, November 14-19; Southern breeding cattle, November 14-10. tle, November 14-19.

The Provincial Fruit, Flower and Honey Show

Elaborate arrangements are being made for the Provincial Fruit, Flower and Honey Show to be held in the Granite Rink, Toronto, during the second week in November. It will be the biggest show of the kind ever held in Canada.

The various associations interested include the Ontario Fruit Growers' Association, the Ontario Bee Keepers' Association, the Toronto Horticultural Society, the Toronto Gardeners' and Florists' Association, and the Toronto Electoral District Society.

A series of meetings will be held at the time of the show. The Fruit Growers' Association will hold its annual convention, as will also the Bee Keepers' Association. There will also be a meeting of delegates from all the Horticultural societies in the province, as a result of which it is expected that a provincial Horticultural Association will be formed. Cheap rates have been secured over all the Agricultural Societies. Toronto, who has the details of the show largely in hand, will be pleased to supply information on request. A series of meetings will be held at 38

The Ottawa Fair

The Central Canada Fair directors are ever working in the interests of the farmer and breeder. They have made changes in the grounds and buildings and increased the premiums buildings and increased the premiums again this year with the object of pleasing and encouraging stockmen. In all live stock classes there have been increases in prize money and in special premiums, as a glance at the list will show.

The special prizes in the various live stock classes include thirty-five of the beautiful gold medals exhibi-tors are so anxious to possess, and for which the fair is noted. Those who have not exhibited at the Ottawa Fair cannot do better than give it a trial. It is a grand show and has a splendid reputation with all its patrons. The reputation with all its patrons. The Exhibition proper is not second to any show given in Canada, and its special attractions have never been excelled. The sports programme in-cludes grand trotting and running races, for which generous purses are

The Ottawa Exhibition is to be held at the close of the Western Fair at London, which follows the Toronto Show, and the one display or exhibit would do in the three places. There are very favorable railway rates for the benefit of exhibitors from all over Ontario and Eastern The Secretary is Mr. E. McMahon, and he will gladly supply all information desired.

Toronto Exhibition

Many changes, compared with previous years have been made in the prize list of the Canadian National Fair, to be held in Toronto this year from August 29 to September 10. Every department has been carefully gone over, and the rules, regulations ne over, and the rules, regulatio and conditions are now so explicitly set forth that the executive believe misunderstandings and misinterpre tations will be next to impossible. In tations will be next to impossible. In the horse classes a variety of altera-tions have been made. For instance, in the general purpose classes it is provided that horses must only be ex-hibited by persons engaged in agrihibited by persons engaged in agri-cultural pursuits, and that they must be horses suitable for the wagon, carriage, bugsy, sadde or plow. Docked horses in these classes are not eligible. Instead of one, as last year, two prizes are given for strings of ten horses, each of the value of \$50, and one for heavy draught, any breed, not necessarily bred by but owned by exhibitor at the time of making entry, and the other for any breed other than heavy draught, same conditions.

A third prize has been added to every one of the poultry and pet stock

every one of the poutry and pet stock classes, involving an increase in the prize money in the aggregate of \$400. Entries close: For live stock, dairy products, ladies' work, fine arts and natural history, on Aug. 8; grain, field roots, garden vegetables, floricultural and horticultural products, and honey, Aug. 13th; poultry and pet stock, Aug

Prize lists, which this vear are good-looking productions, can be had on application to the manager, J. O. Orr, 70 King St. East, Toronto.

The Western Fair

The new dairy building for which The new dairy onliding for which the Ontario Government has made an appropriation of \$10,000, will add much to the equipment and attrac-tiveness of the Western Fair at London this year. The building will be 130 by 65 feet, which will give a floor space of 8,500 feet. The removal of dairy department from the old ding, which was combined for building, dairy products, horticulture and agri-culture, will give much more room for the last two departments, some-thing which has been very much

All the other departments of the All the other departments of the fair are being looked after, and patrons of the good "Old Western" will find it alive, up-to-date and progressive then they time arrives. The prize it alive, up-to-date and progressive when show time arrives. The prize list is now ready and will be supplied on application to J. A. Nelles, Secretary, London, Ont.

A \$200,000 Coliseum

A \$200,000 Coliseum
The Union Stock Yard Co., Chicago. has agreed to build a \$200,000 coliseum for the International Live Stock Exposition, provided the breeders and the stock of the stoc



The Belleville Business College

DEPARTMENTS

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Civil Service Options. 5. Mathematics.

6. Languages: English, French, German. J. A. TOUSAW, J. FRITH JEFFERS, M.A.

BELLEVILLE, CANADA.

Farmers' Sons Wanted with knowledge of farm to work in an office, see per month with advancement; steady employment; must be honest and reliable. steady employment; montainer being established Branch Office of the association are being established in each Province. Apply at once giving full particu-lars. THE VETE NAMY SCILNUS ASSOCIA.



Have now become Standard of Excelen-with the Farmers Canada and the Unit States. At the World Fair. Chicago. 18 the only medal as Diploma given on hi Carriers, Forks as Slogs, was award to us on these implements.

JAS. W. PROVAN, Oshawa, Ont.

Correspondence solicited. Special discount for cash. When writing please mention this paper



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is a tested Mill.

Simple, but with Strength like a Glant.

HAS NO FRILLS (put on to sell you)

But is a Terror for Hard Work.

No up-to-date farmer should be without one

Ontario Wind Engine and Pump Co. LIMITED TORONTO - - ONT.

OUESTIONS AND ANSWERS

Creve Coeur Fowl

I saw in THE FARMING WORLD for T saw in The Fakanta Woods Jorden February ist, a cut of the Creve Coeur breed of poultry. Would you please let me know where I may get a me eggs for hatching, and oblige.—WM. DYKE, Lambton Co., Ont.

The illustration referred to The illustration referred to was supplied by a correspondent, and was published to show some of the types of old English fowl. We do not know of any breeder of Creve Coeurs in Canada. If there are such we shall be glad to forward their names and addresses to inquire. addresses to inquirer.

Scratches on Horses

Could you give through your col-umns some satisfactory cure for scratches on horses, especially when the affected parts are badly cracked?

SUBSCRIBER.

—A SUBSCHIER.

When the horse comes in, wipe off
the parts nicely, roll a piece of old
sacking around them to keep them
warm, as they are very sensitive to
cool air, and clean them with a brush
when dry. A good preparation to apply when dry is clean, pure la
with the company of the company of the company
who is now dered alum and unslaked
lime. Apply this when coming in and tity of powdered alum and unslaked lime. Apply this when coming in and going out. If it is necessary to rest, attention must be paid to the general health of the animal. Give one teaspoonful of saltpetre every night in the feed. If proud flesh springs up, apply some burnt alum. If both the scratches and the health of the animal are neglected, grease is the usual outcome. In both cases an ounce of prevention is the best. Never wash the feet or legs in cold or wet weather, and when they are day and clean again as soon as possible.

Killing "Live Forever"

Killing "Live Forever"
Could you tell me through the columns of your valuable paper any way
by which I could rid a piece of ground
of a verdant growth of "Live Forever?" It has been in the ground for
years and has spread over an acre. I
would like to know how to kill it—
Ross McLeon, Oxford Co., Ont.
This plant is well named. The only
possible way that we know of to get
it out of the ground is by plowing

possible way that we know of to ground is by plowing and thorough cultivation. The roots grow and spread out so that it is impossible to get them out of the ground otherwise. If the field is not in crop, otherwise. If the field is not in crop, plow right away and keep the top soil thoroughly cultivated the balance of the season. If there is a hoe or corn crop on it, cultivate thoroughly between the rows and hoe and weed out between the plants. If a grain crop, begin working after harvest or during as dry a period as possible. Aim to keep the roots near the surface where they can easily be killed by top working. ing .42

Flies on Cows-Salt in Butter

(1) What is a good mixture for the prevention of flies on cattle and what is the best way to apply it? I think myself, the best way to apply it is by spraying. We have used a

think myself, the best way to apply it is by spraying. We have used a mixture of tar and some other ingredients, 'I don't remember what it was, and applied with a brush.

(2) What is the exact amount of salt necessary for a pound of butter? I mean just enough salt so that the butter will keep and be neither too salt nor too fresh.—Subscriber, Bruce Co., Ont.

(1) In his excellent book, "Canadian Dairying," Prof. Dean gives the following recipe for cows in fly time: "Cows should have shade in hot wea-"Cows should have shade in hot wea-ther, or be kept in a darkened stable during the day. A mixture of fish-oil (one-half gallon), coal oil (one-half pint), and crude carbolic acid (four tablespoonfuls), mixed and ap-plied to all parts of the cow except the udder, once a week, will keep the lies from about twenty-five cows. Lighter mixtures may be sprayed on once a day for this purpose." This mixture could be sprayed on and should prove effective in keeping off

(2) One of the objects of salting butter is to preserve it. But salting also affects the taste, and consequently the amount of salt to be used will depend upon the market to which it is going. This is especially true of creamery butter. For the home marcreamery butter. For the nome mar-ket, from three-quarters to one ounce per pound of butter is sufficient. Ex-port butter should not contain more than three per cent. salt in the finish-ed butter. Butter salted at the rate of one-quarter of an ounce per pound of butter from the churn will contain of butter from the churn will contain about one per cent. salt in the finished butter. For the farm dairy, from one-half to one ounce of fine, pure salt is all that is required. One ounce to the pound is sufficient to preserve butter for a long time, provided that it is kept in a proper place.

ABOUT RURAL LAW 9999999999999999999

In this column will be answered for any in this column will be answered for any aid-up subscriber, free of charge, questions of w. Make your questions brief and to the bint. This column is in charge of a competent lawyer, who will, from time to time, ublish herein notes on current legal matters of interest to farmers. Address your com-munications to "Legal Column," The munications to "L Farming World, Tor

Draining Land

-A plow furrow that I can and reap over, takes the water off one of my fields, and if it were tile drain-

of my fields, and if it were tile drained, a two or a three-inent file would do it. I. Does the law compel me to put in 8-inch tile to drain a neighbor's swamp?—R. J. Elgin County.

A—If your neighbor can get no other outlet for his drain he can take certain proceedings (see last issue of FARMING WORLD), to compel you to FARMING WORLD) to compel you to give him an outlet over your land, but of course he would have to bear the extra expense of the larger sized tile was of no benefit to you

Rights of Succession in Manitoba

Rights of Succession in Manttoba
Q.—A died in Manitoba without a
will, leaving a mother and brother
and sisters. I. How should his estate
be divided? 2. The estate is being administered by the Toront. General
Trusts Corporation. Should they settle everything and give the heirs their
share, or will I have to have a lawyer? 3. Will they take their pay out
O. —I. it should be divided among
his mother, and brothers and sisters
his mother, and brothers and sisters

A.—I. it should be divided among his mother and brothers and sisters equally. 2. Not necessarily, unless there is something in their accounts which you don't understand or wish to object to. 3. Yes; the amount of it will be fixed by the judge.

Hire of a Horse

Q.—I was hired a \$25 a month to carry the mail for a company from the town thirteen miles away, the company was to supply me with the horse. I had been doing this for six

months when the company put the horse up for sale, and I bought him. I am still using him to carry the mail. 1. Can I make the company pay me extra for his feed, and for the trip to town every day? 2. Is \$2.50 a week too much to charge for feed, and is \$1.00 too much for a trip to town?—1

too much to charge for reed, and is \$5.00 too much for a trip to town?—
D. W., Alta.
A.—1. If your agreement was that they were to supply the horse, you can make them pay you extra if your can make them pay you extra if you may be to the pay the pay to the country.

Barn Burned by Lunatic

Barn Burned by Lunatic
Q:—A, who is a lunatic, burned
down my barn, as I can prove. He iswell off and has a large estate. I. Can
I claim damages from him for sodoing, or would the fact that he is a
lunatic excuse him?—J. M.
A.—No; You would be entitled to
damages, but you could not prosecute
him criminally for arson.

Defective Buggy

Q.—My father bought a buggy from a manufacturer, to be used, as the manufacturer knew, by my father and his family. After it was purchased I was riding in it, and one of the hubs broke, the buggy was wrecked and I was badly injured. I can prove that was been a buggy was wrecked and it was badly injured. I can prove that the provided of the provided of the provided of the provided of the covered with grease, and the crack

but the manufacturer had caused it to be covered with grease, and the crack filled in. 1. Can I sue the manufacturer for damages?—M. W. S. A.—Yes, since the manufacturer knew that you might use it, he would be liable to you if you were hurt while using it and owing to a defect in the wheel such as you allege.

Broken Wagon on Street

Q.—A was driving his wagon along the street with a heavy load on it, when the axle broke, and he had to leave it there till he went and got an-other wagon to take the load off, so other wagon to take the load off, so that he could move his wagon. About two hours after it broke down, B came along and ran into it and was injured. 1. Can B recover damages from A?—J. on our unless, having regard to the difficulty of removing the to the difficulty of removing the degree of the degree allowed to remain the degree of th

wagon would not become a nuisance or obstruction to the highway if the two hours were not an unreasonable time. We do not think that it was under the circumstances.

Going to South Africa
Messrs. E. J. McMillan and Stewart Galbraith, two graduates of the
Ontario Agricultural College, have accepted positions with the government
of the Orange River Colony. The
perimental Farm to be sublimed in
that Colony, and the latter of the
field plot experiments. For several
years Mr. McMillan has been secretary of the Department of Agriculture
of Prince Edward Island.
Mr. W. J. Palmer, who went from
Toronto to the Orange River Colony
last fall as Director of Agriculture,
has been appointed a member of the
Joint Legislative Council of the
Orange River and Transvaal Colonies. Going to South Africa

Turkey Chicks

Although rather late in the season, I wish to say that, while the chicks are delicate for the first six weeks or so, after that they are as hardy as anything wearing feathers can be. But for these six weeks or two months, don't allow them to be out in cold or rainy weather; if one can have an open shed—a wagon shed—or something of that kind answers the purpose admirably. It is sufficient and much better than a tighter place would be, for it seems to be shelter from wind and rain that is needed. needed

If they have been confined during a long cold spell, see that they get plenty of short grass, or something of the kind, and also plenty of grit. Don't feed for 35 hours, and give grit with the first feed. Cook all the food when they are "shooting the red," as it is termed, and after that they are hardly to be killed with anything short of an axe or knile. If they are watched when first allowed to run loose, and when they begin to roam far out of bounds, are fed just a little to call them back, they will soon learn to stay near their feeding places, and give little trouble. If they have been confined during to stay near their give little trouble.

F. H., Quebec.

.12 The Roosts

Roosts for heavy fowl should be wide. A four-inch-wide board one inch thick will be better for large Asiatics as a roost than anything else, but the small breeds will be satisfied with a round role or nines of the but the small breeds will be satisfied with a round pole or a piece of three-by-four scantling rounded on the edges. The largest breeds prefer to have a support for the breast, as it tires them to hold the weight of the body entirely on the legs.

A Pretty Good Turkey Story

A Fretty Good Lurkey Story
The iollowing is from Rural New
Yorker: A subscriber sends us the following clipping from a local Ohio paper: "Mrs. John Bromley, of stichhied
township, Henry county, has a turkey
hen which is a source of continual entertainment, and as a vaudeville artist this
remarkable flow istands at the top notch.
Eleven years ago Mrs. B, found one of
her hen turkesy was continually abusine her hen turkeys was continually abusing one of her brood, would not allow it to eat with its little brothers and sisters, would strike it with her wing and knock it over every time it came in reach. Mrs. B. finally took the poor little th-ag into the house and raised it by hand, making a great pet of it. As the turkey grew up it was so entertaining that it was named 'Cute', and would come at the call of its name from any place within hearing. The first summer of this heris maturity she hald be eggs and hatched and raised 18 turkeys, an sorr five years she averaged amme number of eggs and was compared to the compared to the strike of the compared to the com ed Cute to see what she thought of the little egg. Cute came at the usual time, and observing the Guinea egg—turning and observing the Guinea egge—turning first one eye and then the other on it—she stepped into the nest and with her foot kicked the egg fully six feet away. She then sat down and went through the usual pretense of laying. At the end of three weeks Mrs. B. placed 18 eggs, turkey, chicken and Guinea eggs, in Cute's nest, and the old girl accepted the situation and hatched them all out. And for the past six years Cute has done the same thing, never laying an egg, but always making a nest and hatching the eggs aupplied to her.



Ganadian National Exhibition

Toronto 1904

AUGUST 29 to SEPT. 10

\$35,000-In Premiums-\$35,000 For Live Stock-\$25,000-For Live Stock

\$3,000.00-For Dairy Products, Etc.-\$3,000.00

ENTRIES CLOSE AUGUST 8th.

By special permission of His Majesty the King. Band of Black Watch will play three times daily. Magnificent spectacle every evening: Siege of Luck-now, with brilliant freworks. Reduced rates on all lines of travel.

Prize Lists, Entry Blanks and all information supplied on application by TORONTO, ONT.

W. K. McNAUGHT, President.

J. O. ORR Manager and Secretary.

The Western Fair, London SEPT. 9th to 17th, 1904

.... 37th Annual Exhibition

Its continued growth and importance demands greater accommodation. A new Brick and Cement Dairy Building costing \$10,000 has been added, giving a floor space of \$,000 feet, with complete demonstrating department and refrigerating system.

More room provided for Agricultural and Horticultural Products, Live Stock

Buildings the best on the Continent. Ample accommodation for all. Entertainment features the best. Stabling and space allotted as entries are received.

Special Railway Service.

Entries Close Sept. 8th.

Prize Lists Now Ready.

LT.-COL. W. M. QARTSHORE, President.

J. A. NELLES, Secretary

Advertise in The Farming World

About Canadian Bank Notes

The following by J. W. Johnston, principal of the Ontario Business Col-lege, Belleville, shows how strong Canadian banking institutions are and how the holder of bank currency is

The bills of a Canadian bank are promises of the bank to pay the bearer on demand the sums named. If a demand were made for the payment the mand were made for choice of paying band were made for choice of paying bod or legal tender, legal tender leng notes of the Dominion of Canada. To be in readiness to meet a demand for payment of their currency, the banks hold a reserve of gold and Dominion legal tender notes. Every day experience on this continent proves that people don't desire to carry gold money; they are content to receive, keep and pay paper money, because it is convenient and less hable to be lost; and the experience of many years has demonstrated in Canada that an instantly available cash and legal tender reserve to the extent of ten per cent. of all liabilities of the banks to the public is a safe provision. safe provision

It must not be forgetten that bank-ing is the giving and receiving of cre-dit, and there is inherent in it a com-mercial risk. The depositor takes a mercial risk. The depositor takes a risk when he deposits; the bank takes a risk when it lends to a customer. The ultimate test of a bank's financial ability to meet his obligations is the solvency of the merchants, the manufacturers and the other classes of customers to which it lends the funds

at its disposal.

at its disposal.

The currency of a Canadian bank is, practically, a currency secured on a gold basis; and to insure that no loss shall come to the holder bills, the law must be an incompared to the holder bills, the law must be and redemption, which is as follows: The bills of a bank have the first claim upon all its assets, including what is known as the double liability of the shareholders, which means that in the event of a failure of a bank, each shareholder may be called upon to pay in, for the benefit of the bank's ereditors, a Le equal to the par value of the benefit of the bank's assets, the holders of the currency of a suspended bank have recourse also to a fund in the hands of the Canadian Government, known as the "Bank Circulation Redemption Fund," which was created and is maintained by each of the banks contributing a sum equal to five per cent. of its accurrentiation. The currency of a Canadian bank of the banks contributing a sum equal to five per cent. of its accurately as-certained average yearly circulation. This fund is available to pay the bills of any suspended bank, irrespective of the sum which the particular bank contributed to it. All the banks are thus made security for the redemption of the currency of each sum that is further provided suspension, the that in the provided suspension, the contract of the provided suspension, the rate of five per centum that is the provided suspension. notes then in circulation shall bear in-terest at the rate of five per centum per annum from the day of suspen-sion to such day as shall be named by the directors or liquidators for their redemption and that there shall be some place in each province where, for the convenience of the public, the bills of each bank may be presented

bills of each bank may be presented for payment.

A bank must not issue bills of a lower denomination than five dollars, nor of any denomination that it is not a multiple of five, and its total issue of bills must not exceed the sum of its paid-up capital. Be security for most of our payment of the paymen

THE BANK OF TORONTO TORONTO, ONT.

THE OLDEST BANK HAVING HEAD OFFICE IN ONTARIO INCORPORATED 1838

- - - \$3,000,000 CAPITAL 3,200,000

SMALL SUMS may be deposited in our Bavings Department. is added every six months.

PERFECT SAFETY for your Money with us, whether much or little.

FARMER'S ACCOUNTS of every description receive constant attention.



Regina Precision Watches are all guaranteed as shown here. A CATALOGUE describing fully the universal feature of the guarantee, giving prices, also a complete list of official agencies SENT ON APPLICATION.

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MINUTE BREAD MAKER

The Universal three minute Bread-Maker is mixer, kneader and raiser all combined, very simple in con-A child can operate it. struction. As easily cleaned as a tin pail. guarantee this simple machine to mix and knead bread perfectly in three minutes.

Price \$2.25 each

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BUCHANAN'S UNLOADING OUTFIT

Works well both on stacks and in barns, unloads all kinds of hay and grain either loose or in sheaves. Send for catalogue to

M. T. BUCHANAN & CO., Ingersoll, Out.

Combination Shorthorn Sale

Combination Shorthorn sale, held at the Hamilton sale pavilion on June 28th, passed off fairly well. No big prices were recorded, and the average was below what was exguing Taking them some good snaps, going Taking them some good snaps were fair, and though they did not bring big money to the contributor, indicate a fairly healthy condition of things. The highest orice was \$3,00, paid by F. W. Scott for the imported Roan Lady cow Rossetta 8th. A nice Jit heifer imported by Chas, Rankin, sold for \$500 to \$100 to \$ chaser:

Contributed by W. C. Edwards & Co., Rockland.—Ruby of Pine Grove and (imp.), \$160, A. C. Petiti, Free-man Missie Maid (vol. 20), \$95, E. J. Petiti, \$160, A. C. Petition, Cump.), \$160, A. C. Petition, Cump., \$160, A. C. Petition, \$160, A. Petition, \$160, A. Petition, \$160, A. C. Petition, \$160, A. Petition, \$1

1902, \$70, James Wilson.
Contributed by Chas. Rankin, Wyebridge.—Duchess of Abørdeen (imp.).
April 25, 1902, \$300, Sir Wm. C. Van
Horne, Selkirk, Man.; Deeside Lass
(imp.), Feb. 7, 1900, \$30, Hugh A.
Potter, Caledon; Beryl 2nd, April 9,
1903, \$75, A. E. Hoover; Aggie, June 1,



Good for little pigs and big hogs — for lambs and sturdy sheep. Nothing like it to keep them fat and well. Used all over

the continent by successful farmers. Write for free literature and MYERS ROYAL SPICE CO. NIAGARA FALLS, ONT. & N.Y.







- TORONTO

P. JAMIESON,

1903, \$85, T. E. Robson, Ilderton; Lovely 58th, Jan. 18, 1904, \$100, Geo. Amos, Moffat; First Choice, Sept. 7, 1903, \$85, Class. Bishopric, Toronto; Tilbouries Duchess (imp.), April 2, 1890, \$200, A. C. Pettit; Princess 33rd, (imp.), Peb. 27, 1901, \$270, Class. Bishopric, Mildred, May 1, 1693, \$80, Contributed by D. Milne & Son, Ethel.—Bessie Lee, Feb. 19, 1890, \$145, F. A. Gardiner, Brittania; Roan Lovely, May 20, 1903, \$80, T. L. Pardo; Vanity, June 30, 1902, \$85, Geo. Pardo; Velvet Rose, May 30, 1903, 95, Noble Milne, Ethel; Scotland's Fame (imp.) April 7, 1902, \$490, Noble Milne, Contributed by T. E. Robson, Ilderton.—Lady Riverside Spith, May 29, 1903, \$130, Sir Vin. Van Horne; Rowens Fairfax, and, Oct. 29, 1902, \$80, O. Ross, Streetsville; Cecelia Hillhurst 2nd, Dec. 3, 1902, \$100, Geo. Amos; Vain General, March 21, 1903, \$80, W. D. Flatt.

D. Flatt.

D. Fiatt.
51 females sold for \$6,710, average
\$131.56; 6 bulls sold for \$900, average
\$150; 57 head sold for \$7,610, average

D. C. Flatt's Sale of Yorkshires

D. C. Flatt's Sale of Yorkshires
The sale of imported Yorkshire
swine, held by Mr. D. C. Flatt, in the
swine, held by Mr. D. C. Flatt, in the
swine held by Mr. D. C. Flatt, in the
paythorn of the paythorn of the paythorn
June 15 last, mail of the paythorn of the paythorn
but bidding was lively and paythorn
but bidding was lively and one paythorn
but bidding was lively and were
host of the leading breeders of purebred Yorkshires were present. Only
two or three Americans were in evidence, but it was clear that they were
after the good ones and willing to pay
the price. The average price obtained for the entire herd was about \$85
per head. The offerings consisted of
a large number of fine animals of the
medium bacon type with a few thick
ones and some of the extreme bacon
conformation, but it was clearly evident that the mediums were in strongtent that the mediums were in strongtent that the mediums were in strongdent that the mediums were in strongest demand.

dent that the mediums were in strongest demand.

The highest price obtained was
paid by W. Canfield, of Minnesota,
and was the nice sum of \$360 for Sumold sow bred by the Earl of Rosebereding, and doubtless destined to
be seen at St. Louis Fair. The same
buyer again paid \$250 for Summerhill
Dalmeny Empress, bred by the same
breeder, and \$450 for her litter sister.
A number of boars were sold for
prices ranging from \$590, paid by the
prices ranging from \$590, paid by the
Clipper, Leading Canadian buyers
were J. E. Brethour, Burford; J. Hill,
Wellesley; Geo. Amos, Moffat; Matt.
Wilson, Fergus, Ont; W. A. Martin,
Corleyville, W. G. Petit, H. J. Davis,
Woodstock; F. Shore, J. G. Gibson,
J. Redmond, H. Jennings, J. G. Watson, and other well-known breeders
of Yorkshires in Quitarion Sale at Port Perry
Combination Sale at Port Perry
Combination Sale at Port Perry
Combination Sale at Port Perry

Combination Sale at Port Perry Combination Sale at Port Perry
The combination sale of live stock
held on June 16th last, was well attended and quite an active interest
was evinced. The offerings were a
number of young Yorkshire sows and
boars contributed by well-known local breeders and from leading breeders outside. Among these, some fine
Burford, and Wm. Smith, of the time
Smith & Richardson, Clydesdale importers, of Columbus, Ont. There
were about twenty head of milch
cows offered, with quite a number of were about twenty head of milch cows offered, with quite a number of store cattle. Prices received were fair, and in some cases, the dairy cows and store cattle, excellent. It is the intention of the management to hold an auction sale of pure-bred Shorthorns in the fall. The auctioneer was George Jackson, of Port' Perry.

PURE-BRED STOCK

NOTES AND NEWS FROM THE BREEDERS

These columns are set apart exclusively for the use of breeders of pure-bred stock and poultry. Any information as to importations made, the sale and purchase of stock and the condition of herds and flocks that is not in the nature of an advertisement will be welcomed. Our desire is to make this the medium for conveying information as to the transfer of pure-bred animals and the condition of live stock throughout the country. The co-operation of all breeders is earnestly solicited in making this department as useful and as interesting as possible. The editor reserves the right to eliminate any matter that he may consider better suited to our advertising columns,

Farming World Man on the Wing Mr. G. Clemons, of St. George, Ont., is well known as one of the champion Holstein breeders of Ontario. He is a strong advocate of the advanced registry, and few, if any, of his animals that are not performers themselves or closely related to noted performers in the dairy test. Among the young stock on the farm is an 11-mos. buil calf, a son of Mondamon's Daisy Farrington, a cow that averaged over 50 lbs. of milk for over six months. He has recently sold, to go to a breeder in Quebec, a fine 15-mos. son of Mary Anderson and Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This buil is now a three-year-old. He was sired by the Count of Maple Hill. This built is now a three-year-old. He was sired by the Count of Maple Hill. This built is now a three-year-old. He was sired by the Count of Maple Hill. This built is now a three-year-old. He was sired by the Count of Maple Hill. This built is now a three-year-old. He was sired by the Count of Maple Hill. This built is now a three-year-old. He was sired by the Count of Maple Hill. This built is now a three-year-old. He was sired by the Count of the was sired by the Count of the was sired by the Count of the will be will be

Quite a number of farmers in the locality of Hagersville are showing a very commendable inclination to breed better stock. Mr. James Fleming, of Nelles Corners, is the owner of a lot of real good ones of fine type and size. Mr. Matt. Hall began a few years back by purchasing a couple of cows of Britannia breeding, sired by Sir Chaldopher, from James Douglas, of Chaldopher, from James Douglas, of Chaldopher, from James Douglas, of ways been able to appear as a contending factor in the local shows, and oftener than not, has landed a first prize. He has now a number of fine heifers that promise to build up a herd to be proud of John Lishman, the breeder of Miss Canada, a prize this year, began some years ago in the same way, and the example is a good one for others, now breeding and feeding scrubs and grades, to follow. Albert Smell is breeding Yorkshire swine successfully and extensively. Albert Hinds and W. Nichol are old breeders, well known, and the the leading stock breeding districts of Ontario.

The name of Mr. Jas. Bowman has been for years widely known as one of Ontario's leading breeders of the "stodgy" Aberdeen-Angus cattle. The herd keep by him at his Elm Park Farm at Guelph, have for years been winners at most of the leading shows in America, and a reason for this can easily be seen in the type and quality of the individual members of the herd itself, many of them having proved their superiority in the showrings of the old land before coming here. Among the older members of the herd is Pride of Langmuir, the dam of

Pride of Rowey 9th, who is a championship winner at the Highland and Agricultural, and the Royal shows in the old country. The aged cow Mayflower will scale 1,600 lbs. and is a magnificent animal, of true typical conformation and fine appearance and nicely fleshed, and is by Kima's Heir, four years champion at Toronto show. Elm Park Kima is the dam of go, 1501. Elm Park Kima is the dam of go, 1501. Elm Park Kima is the dam of go, 1501. Elm Park Kima is the dam of both the state of the state of

Ten championships out of a possible 14 competed for is the show record for the first year duing which the Trout Creek Farm of W. D. Flatt, Hamilton, Ont., has been the home of the Shorthorn. Six years ago Mr. Flatt first turned his attention to the Scotch beef cattle, and commenced in the usual way of beginning at the bottom, and building up a herd by the slow process of breeding them. But anything in the nature of plodding methods could not fail to soon prove found the intense and energetic activity of the lumber business occupiental in the past, and he soon turned his attention to the importing branch of the business. By throwing the same steam and energy and enterprise into this that had characterized his career in business, Mr. Flatt was soon coming to the front, "comin" like the ears," too. With true judgment, he as better Shorthorn than we had, of better quality and better breeding to make its propagation sure, and when he crossed the waters to get it the shrewd old breeders soon saw that the best was none too good, and nobody had more money to pay for what he wanted than the level-headed young Canadian who often found it redious waiting until others had madvang of the comments of the contractive of the

Horse Owners

Look to your interests and use the safest, speediest and most positive cure for ailments of your horses, for which an external remedy can be used, viz:

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	Winnipeg	\$30.00	Regina - 1	33.75
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CARNEFAC Stock Food.

DAVID McCRAE, Janefield, Guelph, Canac Importer and Breeder of Galloway Cattle. Clydesd Horses and Cotswold Sheep. Choice animals for sa

KILMARNOCK STOCK FARM

Cydeedale Horses, and a fine but of pure Scotch and 8, topped Shorthorns for asis, a number of fine individual Phora. Standford, Lovely, Red Boss, and other choice bree Tesm such herd bulks as Ben Machroe. Royal Tim. Alerdo duler size of choice Scotch breeding. Young anima bosh sexas for sale. Write or call on W. HAY, Tara P. O. Blatton G. T., B.

HILLHURST FARM.

Hampshire Down Sheep, the coming breed, direct importations. Scotch topped Shorthorns from imported sires and dams of deep milking strains. JAS. A. COCHRANE, Hillhurst Shation, Compton Co., P. Q.

" NETHER LEA" AYRSHIRES

Offering this month 4 bulls, 15 mos.; 3 choice bull calves, 5 mos.; bull and heifer calves judropped. Napoleon of Auchenbrain (imp.) chead of herd, whose dam has a record of 2th per day. Prices low. T. D. McCALLUM. tam has a record of 72 lbs
T. D. McCALLUM.

FOR SALE

Ayrshires, all ages. Eggs for hatching, from Leghorns. Hamburgs. Dorkings. Chickens. Ducks and Turkeys. Also five pure Collie pups. For further particulars write to W. STEWART & SON, Menie, Ont.

A FEW GOOD CANADIAN BRED

Stallions and Fillies

Some of the gets of such horses as McQueen from fine registered mares. Also a number of good geldings.

A. Torrance, - Markham, Ont.

FOR SALE

ONE SHORTHORN BULL CALF and ONE TWO-YEAR-OLD HEIFER At the Glenavon Stock Farm They are from good milking strain. Write

W. B. ROBERTS, Prop., Sparta, Ont. Station St. Thomas, C. P. R., G. T. R., M. C. R.

MAITLAND BANK STOCK FARM

Shorthorn Bulls fit for service. Also cows and helfers, imported and home bred. Prize win-ners of scotch breeding. Moderate prices. Call on or write to D. MILNE & SON, Ethel P.O. and Sta. G.T.R.

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Breeder of Scotch-topped Shorthorns. Herd contains the fashionable strains such as Minas, Urys, Clippers, of straight Scotch breeding, and the best kind. Both sexes for sale. Corres-pondence invited. Visitors welcome.

NEIL DOW, Tara Sta., G.T.R., P.O. and Tel.

Pleasant Valley Shorthorns

Herd of leading Scotch families, such as Filts Orange Blossoms, Mysies, Killbleau Beauty (Campbell), Nonparells, Clementines, Rosebud Golden Drops, Headed by timp, 101d Lancaster Write your wants or visit personally.

GEORGE AMOS & SON. MOFFAT STATION P.O., C.P.R.

Choice Yorkshires

Young Stock from Fine Imported and Home Bred Boars and Sows

Young Boars fit for service and Sows ready to breed or already bred. Boars and sows not akin. Prices right. Write or call on J. A. RUSSELL

Precious Corners P.O. Cobourg Stn., G.T.R.

BRANT STOCK FARM

OXFORD DOWNS

Yearling rams, ram lambs, aged and yearling. Ewes and ewe lambs from imported and prize-winning stock. Choice lot for sale. Come and see them. Burford telegraph, teleph

J. H. JULL & SON,

one and P.O.

age of \$745 per head. Mr. Fiatt's importations have been pre-eminent as age of \$745 per flead. Mr. Flat's importations have been pre-eminent as championship winners, not only in Canada, but in the United States, where many of them have gone to head the best herds of America.

nead the best herds of America.

Trout Creek Farm lies about six miles from the city of Hamilton, in the midst of a rolling country, once covered with pine forest. Miles of the well-known stump fence give a picturesque appearance to the fine, well-cultives of felds as the well-cultivated fields in the neighbor-hood. The soil is heavy, mellow and fertile, and the buildings of the farm are large and roomy with the airy stables, a suitable home for the large number of aristocratic bovines gathered here. And aristocrats they are. The bluest blood from the most select herds of the old land flows in their veius, and the outward evidence of ect herds of the old land flows in their veins, and the outward evidences of it all are there, intense and strong. Most of the herd are, at this time of the year, at pasture in the fields, only a few of the young stock are to be seen at the stables, but they are a promise of what is to be seen later promise of what is to be seen later what the been been the seen that the what the been breeder was the what the been breeder was the seen and later than the seen and the seen and the later than the seen and the seen are the later than the seen are the seen as the seen as the later than the seen as the seen as the seen as the later than the seen as the seen as the seen as the seen as the later than the seen as bination of early maturity and feed-ing quality in an animal whose car-case carries the most flesh where it is case carries the most flesh where it is cheapest. A number of these young-sters are from the well-known champion bull Spicy Marquis. A fine tomos. red bull calf by this sire, whose dam is Village Maid 49th imp., a cow of straight Village Maid breeding, is one that would make a splendid head for many a herd in Ontario. Another of the company of the c mises to do full justice to his breed-ing. 2 fine imported bulls, 1 yr. past in age, are still at the Trout Creek Farm, awaiting a lucky purchaser. One of these, Gold Cup—50038—, a son of Nonpareil Courtier, dam Gold-en Day 3rd, of Brawith Bulp pedigree, one of the control of the control of the solid fellow, and the control of the loin, quarters and flank that con-yle be improved upon. H. was breed by be improved upon. H. was breed ly be improved upon. He was bred by W. Duthie, of Collynie. The other, by W. Duthie, of Collynie. The other, a fine roan, bred by His Majesty the King at Windsor Farms, is a son of the famous Champion Silver Plate, and from Primula, a daughter of Primrose, and a lineal descendant of Young Broadhooks. He is a splendidly topped fellow who should equal anythus; in Connection Solida (2018).

anything in Canada as a sire.

The fields of Trout Creek furnish for the large herds of imported cows for the large herds of imported cows and heifers as congenial a summer home as any brae in Scotland, and their condition does ample justice to their advantages. Uniformity of type and size is a striking characteristic of this large herd, and while a detailed description of the breeding of these animals would be impossible here, yet every lover of the Shorthorn should not fail to obtain and study the catalogue sublished by Mr. horn should not fail to obtain and study the catalogue published by Mr. Flatt, for here it is that a large part of the history of the breed in Canada is being made, and the name of Flatt and Trout Creek must inevitably be-come, if not the 'guinea stamp, er-tainly the 'hall-mark' of sterling Shorthorn worth in Canada.

Want the Trade to Themselves

At the annual meeting of the American Holstein Friesian Association erican Holstein Friesian Association held last month, a resolution was passed raising the fee for the registration of imported animals to \$25. Like their Shorthorn brethren, the Holstein breeders to the south of the line are determined to, as far as possible, keep out all foreign stock

MAPLE CLIFF DAIRY AND STOCK FARM

Breeders of Clydesdales, Ayrshires, Tamworths and Berkshires.

I amwortns and Dersaures.

For Sale.—One Clydesdale Stallion, I yearsold; one Tanworth Sow, in pig to imported boar; two sows and two boars, Tumnits old, imp. in dam; two Berkshire Boars fit for service.—Address.

R. REID & COs;
Sta. and P.O. near Ottawa. Hintonburg, Ont.

.. Woodroffe Dairy Stock Farm .. Six grand young bulls still on hand will be sold cheap, if taken before winter. SEND FOR CATALOGUE OF STOCK

J. G. CLARK, Proprietor, OTTAWA, ONT.

Champion Berkshire Herd OF CANADA

For several years back the York Lodge herd of Berkshires has won the championship at Toronto Exhibition, besides a number of other prizes. All hogs show great growth and size. Young pigs from the best prize sows and boars for sale at reasonable prices.

W. H. DURHAM, PROPRIETOR, MALTON P. O., ONT

ONTARIO VETERINARY COLLEGE, Ltd. Most successful Vet. Institution in America. Prof. A. Smith, F.R.C.V.S., Principal,

Temperance St., Toronto, Can

A. G. GORMLEY Breeder and dealer in Canadian and imported Clydesdale Horses and Berkshire Swine Address or call at Unionville Sta. and P.O., Ont.

Clydesdale Horses Yorkshire Swine Shorthorn Cattle
A large number of fine Verkshires to choose from
I registered Clydendale mares. Shorthorn Bulls and



ROCK SALT for horses and cattle, in ton and car lots. Terente Salt Works, Terente

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7 Ayrshire Bulls from 1 to 16 months old. Good individuals from high class stock. Prices right. C. S. AYLWIN,

Freeman P.O., Ont.

MAPLE LODGE STOCK FARM

Scotch Shorthorns, Choice Milking Strains, Prize Winning Leicesters, Young Stock for sale-imported and home bred.

A. W. SMITH, Maple Lodge, P.O., Ont.

ABERDEEN-ANGUS GRADES

have topped the highest markets for beef in North America for H years in succession, through good times and duil times. Now is through good times and duil times. Now is bed sires. We have agrand let of young bulls coming on, sired by Canada's Champion Aber-deen Angus Bull, Prince of Burton. Come and make your selection early.

JAMES BOWMAN, EIM Park, QUELPH DE LOACH PAT. Uariable Friction Feed Save Power and Repairs Make Smooth Suited to 4 H.P. up—for the farmer or t ber man. Also Shingle Mills, Lath Mill Mills, Planers and Hay Presses. Catalo

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CLOVER LEAF LODGE HERD OF SHORTHORNS

Choice young stock from grandly-bred Scotch topped cows. A number from choice milking strains. Well-bred Lincoln Sheep. Also Barred and White Rock poultry and Bronze Turkeys.

R. CORLEY
Wingham, Ont. Belgrave P.Q. and Sta., G.T.R.

RIDGEWOOD PARK STOCK FARM

Pure Scotch Shorthorns Clydesdale, Shire, and Hackney Horses

E. C. ATTRILL, Mgr., Goderich, - - Ont.

Ashland Stock Farm.

Pure Scotch-Topped Shorthorns, Cows bred from imported stock of grand Scotch breeding. Young stock of both sexes for sale. J. MARSHALL, Jackson P.O., Ont.
Tara Station G.T.R.

Glenview Stock Farm CLYDESDALES and HACKNEYS All imported Stock Two Grand Young Hackneys for Sale

W. Colguhoun, Mitchell, P.Q. and Station, G.T.R.

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COLEMAN, P.O., - ONT.

FOR SALE—During the next six weeks—young stock of both sexes JERSEYS, GUERNSEYS

and AYRSHIRES Our prizes won at Toronto and Ottawa this year give only a fair idea of the quality of the stock. Our prices are consistent with such quality. Correspondence solicited. Photo-graphs and full particulars will be sent on

JOHN H. DOUGLAS.

BREEDER OF

SHORTHORN and

AYRSHIRE CATTLE YORKSHIRE SWINE

Young stock of all ages and both sexes for sale.

Warkworth, P.O. CAMPBELLFORD STA., G.T.R.

Waverly Stock Farm

HACKNEY STALLIONS

AND

FILLIES

Choice young stock, imported and home-bred.

R. BEITH. Bowmanville, G.T.R., Ont.

Stock Gossip

E. Brethour, Burford, Ont., s: "Notwithstanding the fact writes: writes: "Notwithstanding the fact that over eighty brood sows are kept in the Oak Lodge herd, we find it dif-ficult to keep the supply up to the de-mand. However, we are in the pig business to fill orders and have this week added four more brood sows as well as a choice young boar. These as weh as a choice young ober. These five pigs are imported, and being entirely new blood, will make a valuable addition to the herd. We have a splendid lot of young pigs that are now ready for shipment and invite correspondence. Prices are reason-

able. Mr. H. V. Glendenning, Bradwardine, Man, writes: "My attention has been called to the enquiry by Jno. Stephenson, Lambton Co., Ont., re Red Polled cattle. I might say that I own the pioneer herd of Red Polled cattle in Manitoba and the North-West. I don't know if there are any in the little more than a fear appearant by the property of the pr East. I made the first importation a little more than a year ago, and the cattle are doing well, notwithstanding the severe winter. I intend making an exhibit at the Dominion Fair at Winnipeg and it would pay any one interested in the breed to visit me and look over the cattle, as there will be some choice animals for sale."

Pine Grove Shorthorns

A visit to Pine Grove Farm, Rock-land, Ont., in June, makes a pleasant and profitable outing. On this farm, Messrs. W. C. Edwards & Co. have succeeded in building up one of the largest and best Shorthorn herds in Canada. Their stock are looking essucceeded in building up one of the largest and best Shorthorn herds in Canada. Their stock are looking especially good at this season. Especially good at this season. Especially is this true of the young stock. A finer and more uniform lot of calves the continuous of the control of the con

Clydesdales for Quebec

Clydesdales for Quebec
We learn that Messrs. A. & W.
Montgomery have sold to Mr. Ness,
Howick, Quebec, four first-class
three-year-old mares and three twoyear-old coils. Two of the mares are
got by Aeme, and the other two by
Royal Carrick. One of the coils is an
extra good animal, got by the champion breeding horse Baron's Pride
out of a Macgregor mare, and the
Baron's Pride horses Up-to-Time and
Pride of Blacon. These are an extra

Stock Farm

FOR SALE

About 667 acres, 10 miles from Hamilton 557 acres cleared, 110 uncleared; soil, clay and clay loam with clay sub-soil, watered by creek. Two sets of buildings. This farm is admirably adapted for stock.

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Write for Catalogue.

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DEALER IN CLYDESDALE. COACH AND STANDARD BRED

STALLIONS My last importations were taken directly from the boat to the Toronto Spring Stallion Show, where they won highest

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TROUT CREEK

SPECIAL OFFERING

Two imp. bulls with superior breeding and individual merit. Also a few im-ported Scotch heifers and home-bred bulls and heifers. Send for catalogue.

JAMES SMITH, W. D. FLATT, Manager. Hamilton, Ont. good lot of animals, and they are well fitted to enhance the reputation of the breed in the Dominion.—North British Agriculturist.

Clyde Fillies Sell Well

Clyde Fillies Sell Well
There was a large and representative gathering of horsemen at the
Repository on June 23rd, to attend
the public auction of the Clydesdale
fillies imported by Graham Bros., of
Claremont, Ont. The fillies were seteeted by Mr. Thos. Graham, and
while not fleshy enough to look to
the best advantage, were remarkable
to the best advantage, were remarkable
are the ground, and all
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twee were good movers. While the prices realized could scarcely make the enterprise a very profitable one, yet they show a commendable appreciation of the opportunity offered to obtain mares of the right breeding stock, and the event marks an era in the history of Clydesdales in Canada.

Mr. Walter Harland Smith conducted the sale, assisted by George Jackson. The fifty fillies brought \$1,540. The high street of about \$1,540. The high street of about \$1,540. The high seventh street of about \$1,540. The high seventh specific solution of the street of th of prices and purchasers:

Three-year-olds — Lady Campbell, \$385; Charming Lady, \$320, Geo, W. Fowler, M.P., Sussex, N.B.; Lady Roxburgh, \$435, T. A. Cox, Brantford; Lady MacRath \$410, Wm. Edwards, Balsam; Lady Anderson, \$335, W. A. Dynes, Amaranth; Lady Lively, \$260, A. G. Darrach, Cotswold.

Dynes, Amaranth; Lady Lively, \$460, A. G. Darrach, Cotswold.
Two-year-olds—Lady Sceptre, \$460, Donna Roma, \$700, Hodgkinson & Tisdale; Miss Roumania, \$325, Black Beauty, \$405, Lady Valentine \$430, Fair Lady, \$400, Fair Lady, \$400, Fair Lady, \$400, Fair Lady, \$410, Fair Lady, \$4

Arrincess, \$310 Henry McGowan, Marsville.
Yearlings—Jane IV, \$210, Lovelight \$500, Robt. Davies; Gilden Princess, \$215, Miss Hood, \$185, Lady Fashion, \$185, Nelson Wagg; Bessie, \$200, Grace, 215, May Fashion, \$175, Rosanene, \$300, Kelon Lady, \$200, Geo. W. Fowler, M.P.; Dromore Princess, \$345, F. Mr. Chapman, Pickering; \$345, F. Mr. Chapman, Pickering; Fair Fortune, \$2. Bennett, Russellton; Fair Fortune, \$3. Bennett, Lady Pereless, \$3. Sandrew Airchison, Guelph, Ont.; Border Jess, \$305, W. H. Banks, Pickering; Lady Irving, \$3. Box, Alexendre, Hereward.

OAK LODGE YORKSHIRES

Years of careful breeding have made the Oak Lodge Yorkshires the Standard of Quality for IDEAL BACON HOGS.

The Championship against all breeds has been won by this herd for 5 years at the Provincial Winter Fair, on foot and in dressed carcase competition. Prices are reasonable.

BURFORD, ONT. J. E. BRETHOUR,

H. CARGILL & SON,

Importers and Breeders of SCOTCH SHORTHORNS

Present offering SEVEN GRANDLY BRED BULLS. Also a large number of grandly bred young heifers, imported in dam and home bred. Call on or write to

JOHN CLANCY, Mgr.

H. CARGILL & SON, Cargill P.O. and Sta. G.T.R.

Ontario Live Stock Co., Ltd.

UNIONVILLE Sta. and P.O., ONT.

Offer for sale 30 young Berkshire Pigs from imported stock, and 30 young Yorkshire Pigs, also from imported stock.

Price \$5.00 Each, F.O.B. Unionville.

Order at Once.

H. POWERS, Mgr.



The Wheel You Want. For Farm and General Work. ALL IRON.

Any size. Any width of re. Made to fit any axle. trong and durable. Costs othing for repairs.

inion Wrought Iron Wheel Co. Limited, Orillia, Ontario



THE WONDER OF THE AGE

ALL EYES ARE ON THIS INVENTION

Patented 1895-96 and 1903.



The Genuine Tolton Pea Harvester with New Patent Buncher at Work.

Harvesting in the most complete manner from eight to ten acres per day.

Harvesters to suit all kinds of mowers.

Every Machine Warranted. Our Motto: "Not how Cheap, but how Good." No drilling holes in Mower Bar or Inside Shoe. A wrench is all that is required to attach it to any mower. Give your orders to any of our local agents, or send direct to

TOLTON BROS., Limited - GUELPH, ONT.

Market Review and Forecast

The Trend of Markets - Supply and Demand-The Outlook

Toronto, June 29th, 1904. Trade in wholesale lines is a little quieter as is usual at this season of the year. The cheese factories are helping trade in the country and inneiping trade in the country and in-creasing money circulation, which should help remittances from the country trade. Money is plentiful in the banks. Call loans rule at about 5 per cent. and discounts at 6 to 7 per

WHEAT

Markets are lower and, on the whole, weaker, than at last writing. Favorable weather and more hopeful crop reports with discouraging cables have been the leading causes of the asier feeling on both sides of the Atlantic. Reports from Manitoba and the West are favorable and the new the West are favorable and the new crop seems to be making good progress. In Ontario, fall wheat has picked up considerably, but will be only a partial crop owing to the bad start in the spring. From the United States comes news of winter wheat improvement, wheat is heading and filling most satisfactorily. In the Southern States where harvesting is in progress, the crop is yielding as Locally, the wheat market is quiet but steady at 88 to 89c. for red and white; 77c, for goose, and 83c. for spring at outside points.

COARSE GRAINS

COARSE GRAINS

COARSE GRAINS

Oats rule firmer with higher cables for Canadian. In the U. S. the oat crop is maintaining a good average condition. Here, if weather conditions continue favorable, a good crop is maintaining a good average condition. Here, if weather conditions continue favorable, a good crop is sured. Oats are quoted here by assured. Oats are quoted here by good weather late in the season, Canada's corn crop will be below the average. Regarding the United States corn crop the Cincinnati "Price Current" of last week says:

"The corn crop has improved in all "The corn crop has improved in all conditions of the corn crop is the condition, but is still backward; the nights have been too cool for rapid growth; lately, however, there has been more rapid development in the western corn States, and the crop appears to be approaching more nearly a normal condition."

EGGS AND POULTRY

EGGS AND POULTRY

Eggs rices, generally speaking show little change. The export demand for both pickled and fresh stock is not active and values are governed chiefly by the local demand which seems to be active enough to maintain values at a high level. Dealers are complaining some of hot weather eggs. At Montreal, fresh stock sell at from 14 to 14½c, in round lots, and here at 15 to 15½c, with 12 to 12½c. for seconds.

There is nothing doing in poultry.

There is nothing doing in poultry in a large way. A produce company in Toronto, last week, paid 20c. per lb. for broilers or spring chickens weighing over 1½ lbs. each, and 6c. per lb. for hens.

HAY AND STRAW

The hay trade continues in a healthy condition. The deliveries at country points continue to increase, but owing to the active demand for the local and export trade, there are no accu-mulations, consequently prices are

well maintained. Exports of Canadian hay are increasing, and it looks as if England would supply a good market for Canadian hay for some market for Canadian hay for some time to come. Some Americans are buying hay in Quebec at top prices. At Montreal, No. 1 timothy is quoted at \$11 to \$11.50, and No. 2 at \$10 to \$10.50 per ton. Baled hay is a little easy owing to increased receipts, the ruling figure being \$3.50 in carlots on track.

WOOL

Canadian fleece continues scarce and prices are reported at Montreal to be largely nominal. Washed On-tario fleece is quoted there at 17 to 18c., and unwashed at 12 to 13c. Nova Scotia washed sells at 20 to 21c. per lb. Receipts of new clip continue ib. Receipts of new clip continue very light here, lighter than they have been for years. Quotations are 17c. for washed, 13c. for rejections, and 10 to 11c. for unwashed.

Receipts of strawberries are in-creasing. Some small or soft berries sold on Tuesday last at 5½c. per box. The ruling figure is from 6 to 8c., with 9c. for very choice lots.

DAIRY PRODUCTS

The make of cheese is keeping up fairly well. The market situation is not very satisfactory. English buyers have refused to follow the advance on this side during early June, and consequently values have gone back a little. It is stated that more cheese are held in Canada at the present time than for several years back. The total shipments of cheese up to June 22nd this season were 280,062 June 22nd this season were 280,902 boxes, as compared with 431,603 boxes for the same period last year. The local markets this week rule below 8c, the ruling price being from 7½ to

Butter exports have shown a considerable increase lately, being 47,696 pkgs. for the season to June 22nd,

as compared with 31,243 pkgs, for the same period of last year. Cable reports indicate an increased demand for the better grades. At Montreal, things are easy at 17½ to 18c. for finest creamery. There is a good demand for choice quality here. Choice creamery prins are quoted at 17 to 18c. and 20 to 20 at II to 13c.

LIVE STOCK

Live STOCK

Live stock receipts have fallen off considerably this week, there being only 44 cars at the Toronto city margon of the tendency of ing 950 to 1,050 each, sell at \$4.25 to \$4.50 per cwt. Choice yearling stockers sell at \$3.75 to \$4.10, and other grades at \$2.75 to \$3.30 per cwt. Mich cows and springers bring \$27 to \$50 each. Calves bring from \$2 to \$10 each and \$2.15 to \$2.00 per cwt. which cows and springers per converted to \$10 each and \$2.15 \$2.00 per cwt.

each. Caives bring from \$2 to \$10 cach, and \$4 to \$5.50 per cwt. Export sheep are firmer at \$3.85 to \$4.15 for ewes, and \$3 to \$3.25 per cwt. for bucks. Spring lambs bring \$3 to \$4.40 cach. Prices for select bacon hogs rule at \$5.10, and for lights and fats \$4.85

HORSES

There is a general lull in the local There is a general lull in the local horse trade here which will likely continue for a month or more. On Tuesday only some 40 lots were offered at the Repository here. The top price was \$185, paid for a five-year-old good looking gelding of the draught type. The situation, generally speaking, is good. Dealers are not loaded up with horses and will be in good trim to do business when the season opens about the middle of August.

The Canadian Produce Markets at a Glance

The highest quotations of prevailing prices for standard grades of farm produce in the leading markets on the dates named. Poorer stuff lower.

	Toronto		Montreal		St. John		Halifax		Winnipeg		
Date		29		28		23		22		22	
Wheat, per bushel		89	\$	92	\$.		\$.		s	8614	
Oats, per bushel		32		38		43	1	44	1	37	
Barley, per bushel		41		49		50		53		42	
Peas, per bushel		62		70		70		77	١.,		
Corn, per bushel		451/2		54		55		57			
Flour, per barrel	3	65	4	05	5	00	5	20	4	10	
Bran, per ton	16	00	17	00	18	00	18	00	16	00	
Shorts, per ton	20	00	18	50	20	50	20	50	12	00	
Potatoes, per bag		80		63	1	15	1	00	1	60	
Beans, per bushel	1	35	1	30	1	75	1	80	١.		
Hay, per ton	9	00	11	00	13	00	12	00	12	00	
Straw, per ton	5	50	7	50	6	00	7	00			
Eggs, per dozen	-	151/2		141/2		15		15		15	
Chickens, per pound, d.w		20		15	pair		1	00	per		
Ducks, per pound, d.w		15		15	per	80	1	00	16.	14	
Turkeys, per pound, d.w		17		161/4		17		17		18	
Geese, per pound, d.w		10		101/2		12		15	١.		
Apples, per barrel	3	00	3	75	3	25	4	00	4	75	
Cheese, per pound		834	-	77%	-	814		9	1.	81/2	
Butter, creamery, per pound		18		7%	F. C.	20		21		21	
Butter, dairy, per pound		13		141/2	130	18		18		18	
Cattle, per cwt	5	80	5	50	5	25	5	25	5	00	
Sheep, per cwt	4	15	4	50	4	25	4	30	4	75	
Hogs, per cwt	5	10	5	25	5	50	5	50	4	75	
Veal Calves, per cwt	5	50	5	40	5	00	5				

The Death of W. S. Marr

The Death of W. S. Marr, of Uppermill, Scotland, on Tuesday, June 7th, was an event which all stockmen throughout America will hear with sorrowing sympathy. Suddenly in the prime of life and in the flooditide of success, his decease occurred through hearteramp, and his loss will be little short of a tragedy to live stock interests, with which he has been so identified that his name is almost a bonne. In him the scandad, as found a mighty champion, and through him. home. In him the Scotch Shorthorns found a mighty champion, and through him Marr's Missies, Alexandrinas, Marigolds, and Princess Royals, attained the zenith of their prowess and prestige. A "Marr" bull, especially if he were of the "Missie" tribe, was a coveted possession the world over. In private life he was of a most generous, disposition, and was social and hospitable almost to a fault. He was az verse of age and was social and nospitable almost to a fault. He was 42 years of age and had never married. The remains were interred at Udney and the funeral was attended by the Earl of Aberdeen and a large representative company of agriculturists.

Prince Edward Island

Prince Edward Island
Summer is here at last. During the
second week in June the weather was
very coll indeed, and there was heavy
troe on the state of the state of the state of the
gardens have suffered, and it is
for gardens have suffered, and it is
for all that can be desired, and the crops look
excellent. Pastures are far ahead of
last year. Early potatoes are looking
well.

well.

Mr. J. J. Gay is the owner of a fine vegetable garden within the city limits. His vegetables were planted early and look remarkably well. He sells quite a variety of plants. Cabbage plants sell for 10c. per hundred. Since cropping has been completed,

the markets have been well attended. Shipping is brisk.

Shipping is brisk.

CHAMIOTEROWN MARKETS

Butter, fresh, per lb., 18 to 19c;
eggs, 3 to 14c; (buyers are giving 13);
spring chickens, 75c, per pr.; lamb, 60
to 75c, per qr.; becf, per lb., small, 8
to 14c, by pr. 6 to 7c.; pork, 6 to 65c;
mutton, per carcass, 6 to 7c.; lard, per
bucket, 11 to 12c.; flour per cwt. \$2.a0 bucket, 11 to 12c.; flour per ewt. \$2.40 to \$3.50; postatoes per bus., 25 to 30c.; oatmeal per lb., 2½ to 3c.; apples per doz., 16 to 20c. (very scarce); cream, 20c. per qt.; rhubarb, 3c. per lb.; oats per bus., 36 to 38c.; little pigs, \$4.00 to \$4.50; hay per cwt., 65 to 70c.; codlish, fresh, 10 to 20c. each; mackerel, 10c.

During the first part of June the During the first part of June the lobster ishing has been unusually good on the North Side, and codfish have been caught in large quantities. The mackerel have struck. They are

have been caught in large quantities. The mackerel have struck. They are very large and fat. Several hives of bees for A. E. Dewar, Royalty, and a crate of Tamworth pigs for J. G. Seringour, Cardigan, arrived by express on June 7. Grown N.S. have been on the proposition of the p

that it pays.

Will Destroy Mosquitoes

A plant, called the Phu-lo, recently introduced into the United States from the Tonquin country, China, is said to cause the destruction of the

mosquito. The herb, when young, is between a tobacco plant and a mullin. It is soft, green and spongy, yet brist-ling with a coat of hairy down, that must seem to the mosquitoes like a thicket of barbed wire fences, with which no wise or well bred mosquito would attempt to fool. Being a per-rennial plant, it generates few seeds, but this is made up by the multipli-city of sprouts that shoot from is roots.

city of sprouts that sheef from its roots. But its vittees, so it is claimed, are not confined to the ravages it creates among the mosquitoes. The plant may be used still further as a fodder for cattle. It may, like the alfalfa plant, be cut four times a year, furnishing abundant nutriment for cattle. It is also claimed to be a good beef-maker, If, however, it will help to rid this continent of the mosquito pest its introduction will not be in vain. 42

Spraying for Plant Lice

Spraying for Plant Lice
The green aphis, or plant lice, which caused such great destruction to fruit trees and nursery stock last year, may be controlled very largely by early and persistent spraying. These insects suck the juice from the leaf and are not affected by Paris green and other poisons.

Insecticides which kill by contact must be used Whale oil soap used at the rate oil pound in 5 to 6 gallons water is generally effective. To-bacco water made by soaking I pound tobacco stems in 2 gallons water is another good rearries, user formula tobacco stems in 2 gallons water is another good remedy. Kerosene emulsion made by the usual formula of ½ pound soap dissolved in 1 gallon boiling water, to which is added 2 gallons kerosene, thoroughly stirred and then diluted with seven parts water, is used largely. Slaked lime has also proved effective. Treatment should begin early in the season, as soon as any lice are observed, and be continued at frequent intervals to hold them in check.



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Extra Profits are made by feeding "INTERNATIONAL STOCK FOOD" to
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A \$3000.00 STOCK BOOK FREE

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The cover of this book is a beautiful live stock picture printed in its brilliant colors and without a devertising on it. The book is \$6; inches which by \$8; inches long, and cost our engraving department was \$2000 to produce. It gives hintory, illustrations and devergions of the various breeds of horselver, out the heart, goals and pointry. It contains an \$0.000 to \$1.000 to \$1.000

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Advertisements under this here one cent a word. Cash must accompany all orders. No displaytype or cuts allowed. Each initial and number counts as one word.

wainber counts as one word.

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IF YOU KEEP Poultry, Pigeons, Rabbits, Dogs, Birds or Cats, ask for our new Catalogue, MORGAN'S INCUBATOR WORKS, London,

SHORTHORNS—The beef and butter combination. Scotch collies from imported stock. Write for particulars. H. C. GRAHAM, Alisa Craig, Ont.

WANTED — Energetic, responsible men to sell fruit trees, ornamental trees, etc. Canvass-ing outfit frees. Liberal pay weekly. Arrange-ing outfit free. Liberal pay weekly. Arrange-bave a special line of seed potatoes never before offered for sale in Canada. For best trees apply NoW. PELHAM NURSERY COM-PANY, Toronto, Ont.

GINSENG—Fortunes in little gardens. Easily grown; hardy everywhere. Roots and seeds for sale. Plant in spring or fall. Complete booklet and magazine 4. OZARK GINSENG CO., Joplin, Mo., U.S.A.

WANTED—A man for farm work, salary \$200.00 per year with board, or would make other arrangements for six months. Refer-ences. C. S. AYLWIN, Freeman, P.O.

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Best compressed air hand sprayer made.
Splendid seller. Liberal terms. Write for particulars and sample machine. CAVERS
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BUFF ORPINGTON EGGS FOR SALE-Pen No. I consists of 7 imported bens, let Chi-thb, 5th hen 1967, headed by 5rd Ontario cki; eggs 2.00 per 13. Pen No. 2—Utility even col-ultify cki, solid buff, grand shape; eggs, 81.00 per 15, 85.00 per 10. J. W. CLARK, Importer and Breeder, Cainwillic, Ont.

BARREN COW CURE makes any animal under ten years old breed, or refund money. Particulars from L. F. SELLECK, Druggist, Morrisburg, Ont.

EGGS, from choicest "utility" and "fancy" strains, Brown Leghorns, Black Minerosa, Barred Rocks, White Wyandottes, Circular giving particulars free, JOHN B. PETTIT, Fruitland, Ont.

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The story told in a word is this: Organs of the best manufacturers in the Dominion have been reaching us in large numberstaken on exchange account as a result of the tremendous sale today enjoyed by our celebrated piano.

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Only one choice is open to us and that is to clear them out without any regard to the price the manufacturers would ask for them. Every organ is put in good condition by our own workmen before being offered for sale. You have our guarantee—a house that always lives up to its promises—on this point. Here is the list:

1. Prince & Co., Buffalo, low back, 5 octaves, 1 stops, 4 sets of reeds and sub-base, three swell solitable for Sunday School.

2. Octaves, 1 stops, 1 sets of reeds and 1 sets of reeds and 2 sets of reeds a

couplers, grand organ and knee swell.

Solominion Organ, high back containing music rack, 5 octaves, 9 stops, 3 sets of reeds, 84.0,00

Best Organs, high back with music rack, 5 octaves, retinant managements of the state of reeds, 9 stops, muses-proof pedals

Organs, high back with music rack, 5 octaves, 12 stops, 4 sets of reeds, 9 stops, muses-proof pedals

Organs, high back with music rack, 5 octaves, 12 stops, 4 sets of reeds, treble and base couplers, grand organs and knee swell—sets of pedals

Best, 50

B

pedals
Bell Organ, high back with music rack, 5 octaves, 10 stops, 3 sets of reeds, vox humana stop, treble and bass couplers, grand organ and knee swell, mouse-proof humana stop.

pedals.

1846.00

1861 Organ, high back, 11 stops, 1 sets of reeds, beautiful dark walnut case, 5 octaves, mouse-proof pedals, treble and base couplers, grand organ and knee swell.

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Thomas Organ, high back, 5 octaves, 10 stops, 4 sets of reeds, treble and couplers, grand organ and knee swell, mouse-proof pedals. Top contains a \$51.00

Uxbridge Organ, high back 6 octaves, 11 stops, 4 sets reeds, treble and base couplers, grand organ and knee swell. \$59.00

couplers, grand organ and knee swell. When the state of reeds, treble and base grand organ and knee swell, wor humans stop. Year pretty mahagany case, Thomas Organ, dark rosewood plane oase, de otatew, 11 tops, stete of revox humans stop, treble and base couplers, grand organ and knee swell, mou pedals \$61.00 se-proof **\$65.00**

Borlin Organ, walnut plano case with continuous music rack, mouse-group Borlin Organ, walnut plano case with continuous music rack, mouse-prop pedals, 6 octaves, 11 stops, 4 sets reeds, vox humana stop, treble and base couplers, grand 6 octaves, 11 stops, 4 sets reeds, vox humana stop, treble and base couplers, grand organ and knee swell, a certain stop, 12 stops, vox including vox humana stop, treble and base couplers, grand organ and knee swell, including vox humana stop, treble and base couplers, grand organ and knee swell, mouse-prop depadas; a particularly fine instrument.

Debarry Organ, 6 octaves, plano case, with rail top and mirror, 13 stops, vox pedals; and exceptionally handoeme organ only slightly shop wern, used less than three months. Hogular price, \$12.00. Special at.

1897.00 or feeds treble and base couplers, grand organ and knee week very humana source proof pedals. An ornament to any parlor and a pleasure to the musician mouse-proof pedals. An ornament to any parlor and a pleasure to the musician mouse-proof pedals. An ornament to any parlor and a pleasure to the musician mouse-proof pedals.

Doberty Organ, piano case with rail top and two mirrors, II stops, 5 sets of reeds, with teele and base couplers, grand organ and knee swell, vox humans stop. Mouseproof pedals. This is one of the bandsomest organs we have seen and has been used less than two months. Regular price, \$150.00. Special.

Large assortment of Melodeons by Andrew Bros. and R. S. Williams at \$15.00 to \$17.00,

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These organs are sold under the following conditions: Organs under \$50, \$5 cash, and \$3 per month. Organs over \$50, \$8 cash, and \$4 per month. Discount 10% off for cash. Freight paid to any point in Onlaid, and satisfactory arrangements made to other Province.

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45950. If you are interested in a huis prace back at a foot and have a foot of the house of the huist of the

45953, This clean Petticoat is unde of a high grade
tafets allk, in black, old res,
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Price As we have only a limited number of the colored petticoats, we cannot guarantee to fill orders after the present supply is exhausted.

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45700. The voman who
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