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The Independeni Desk Set.-The very latest thing in Magneto Desk Telephones

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WE print the above illustration of the very latest thing in desk telephones merely as an example of the up-to-dateness of our telephones and equipment. We claim that our telephones are superior in design, material and workmanship to any others on the market. We are prepared to furnish the proof by allowing you to try them on your line, free of charge. In that way you can judge their quality and efficiency before risking a cent. Write for illustrated description of this set.

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The service we render our cus. tomers is certainly very complete and efficient. But we are so closely in pendent local and municipal com pendes, as their success means our success, that it is to our advantage to look after them well.

Write for our No. 3 Bulletin, which gives full particulars about the latest methods of building telephone lines. A copy will be mailed to you free on request. We also send you portable telephone or test if you portable ter or ,
If there is no telephone system in your locality, there certainly should be. Your locality surely shouldn't lag behind others which benefits of up-to-date telephone service.

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Canadian Independent Telephone Co.,Ltd.

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Takeany manure spreader youhave cher sha, all the countershafts and stub axles, do away with all adjustments and mount the beater on the rear axle.
Rebuild the spreader so that the top of the box is only as high as your hips. Make it stronger. Remove
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 put just where it is needed. You can Roller bearings, few working parts, near the horses, and the weight distributed over four wheels, make the John Deere Spreader light draft.
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With Steel Stalls your stable is bright. The open construction of the stalls allows the sunlight to reach every corner. It permits a free movement
of air throughout the stable. This abundance of fresh air and sunlight will do more than anything else to prevent disease among your cattle.
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cow tied in a BT Stall and cow tied in a BT Stali and
Stanchion has the maximum
freedom consistent with keep freedom consistent with keep-
ing her lined up in her stall. ing her lined up in her stall. any part of her body. Tied
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is ready for the cattle. Isn't is ready for the cattle. Isn't
that better than buyingexpensive lumber and posts, getting it dressed, hiring expensive carpenters and boarding them for days while they put in your
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and see the Standard cream separator at our agent's in your locality. It will strike you as
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First appearances will delight you. And naturally you'll want to know more about the


You'll want to know why it has earned the title of "The World's Greatest Separator." Our dealer will be glad to show you.

He will show you the low supply can. You will smile cheerfully when you notice that it is over one foot lower than the supply cans on ordinary separators. The high and awkward lifting of a pailful of milk are banished with the Standard.

Then he will get you to step over and turn the crank. You will see right away that you don't have to do any back-breaking stooping. The Standard eliminates that, by having the crank shaft four inches higher than on other separators

## Hessy TO Clean

Next, he will show you the wide open bowl You will observe that there are no milk or cream tubes to clog up. And the discs, on a special disc holder, can all be washed in a minute. If your wife is present, this feature will make her happy And when you are looking at the discs, the dealer will call your attention to the unusually wide space between the discs and the bowl. This space accommodates the impurities in the milk and prevents the discs getting clogged. It means $a b-$ solutely clean cream and no waste.

He will next direct your attention to the fact that the only visible moving part of the separato is the crank, the gearing being entirely enclosed which banishes all danger of the children getting clothes caught or fingers crushed should they yenture to touch the machine when it is running

## Aeli - Oiling sjistem

He will ask you if you can find any grease cups or glass lubricators on the machine. You can't, because the Standard hasn't any. Its self-oiling system automatically supplies the working parts with a continuous bath of oil. And the oil cannot drip on to the floor and be wasted either.

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He will show you-but e've not the space here to tell you all you'll see But we've a catalog that describes the Standard very fully ; also a folder, en titled "Skimming Results,' which gives what we believe are the world's record for close skimming accom plished by the Standard If you cannot conveniently visit the dealer, write for this catalogue and folder. Of course, you'll want them right away, so mail us card or letter promptly


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Nut me to bay
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They cost but a little more than the cheapest, while they
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They save their cost every six months over gravity setting systems and every year over other separators, while they may be
bought for cash or on such liberal terms that they will actually pay for themselves.

Every assertion thus briefly made, is subject to demonstrative proof to your own satisfaction by the nearest DE LAVAL loca agent, or by your writing to the Company direct.

Why then, in the name of simple common sense, should anyone who has use for a Cream Separator go without one, buy other than a DE LAVAL, or continue the use of an inferior separator?
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A CLEAR-EYED young farmer stepped up to a manure spreader demonstrator at the 1912 Chicago spreaders ine the exhibit said: 'I own one of those machines. It is the strongest spreader I ever honestly believe that if I filled that spreader with soft coal it would
spread the stuff for me. I wouldn't trade it for any spreader I ever owned or saw."
This unsolicited recommendation from a man who had used an
I H C spreader, and therefore knew what it would do carried weisht with his hearers. They might have doubted whether an I H C manure spreader would spread soft coal-but there was no doubt in

## I H C Manure Spreaders

 Corn King and CloverleafI H C manure spreaders are made in many sizes, running from
small, narrow machines for orchard and vineyard spreading to small, narrow machines for orchard and vineyard spreading to
machines of capacity for large farms. They are made with either endless or reverse aprons as you prefer.
The rear axle is placed well under the box, where it carries over 70 The rear axie is placed well under the box, where it carries over 70
per cent of, the load, insuring plenty of tractive power at all times.
Beaters are of large diameter to prevent winding and pulverize the manure are square and chisel pointed. The apron drive controls the load, insuring even spreading whether the machine is working up or down hill, or on the level. I H C spreaders have a
rear axle differential, enabling them to spread evenly when turning
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THE FEDERAL LIFE
Hamilton; Onta


Vol. XLVIII.
LONDON, ONTARIO, MARCH 20, 191?:

EDITORIAL.
In the course of any travelling you have done, were you ever attracted to a community without you would like to buy a farm? It never does to us.

The day is coming, olserved a Minister at a recent dairy meeting, when the land along the front of a farmer's property will be counted as valuable as any part of his farm. The time will be when every farm will be made as attractive as possible, especially along the roadside. Well said. May it come soon.

Growers of mangels generally are of the opinion that the Globe or Intermediate varieties have a higher feeding value than the Gate Post or Long varieties. Experiments outlined on another page and carried on by Frank T. Shutt, Domincese the Gate Post variety proying more valuase, the Gate Post variety proving more valu le than the Intermediate type

One hundred and five questions were answered in "The Farmer's Advocate" of March 13th, ex clusive of those considered in the Home Magazine The number answered in this issue will be limited ooly by the space available. Some papers have o invent inquiries to maintain a show of in erest in their correspondence columns. We can
carcely pubtish all we receive. Subscribers ar asked not to submit unnecessary ones.
That sentiment will make but little appeal unless the farmer is able first of all to secure a living, is Prof. J. B. Reynolds' idea, as expressed in recent address. As a means of making it pro able and otherwise attractive to people it tudy its business, Ho business, economic and scien to profitable account, as for example in the improvement oi dairy herds farming is bound to appeal to men of brains.

The remarkaile purity of the Red Fife whea being grown by members of the Canadian Seed Growers' Association, in Manitoba, was referred to at the recent annual convention by the secretary, who inspected the crops last summer. Other nembers had a large percentage of bearded heads their Red Fre, which she drely to poor nee of these impurities is due largely re , ory lack or prife and other bald valies proper seltion to be effective in eliminating them.

That the village, town and city enviromment of our Secondary schools helps to turn the ambition of the pupils away from the farm is the disturb ing fact being borne home to the mind of many a rural father who has seen the son that has always taken an interest in the farm, and whom he han countod upon to help him run it, drifting off insteal to a course in civil engineering, law, or perhape : clerkship. Facts are rude a wakeners, but they are effective. Perhaps before long we may
realiz.. that a consolidated rural, graded school, carromg the pupils two or three classes beyond the titch School Fintrance would be a first-ctass

## Time for Tree Planting.

Wise men were they who set hard maples days. When in early And they have also a low-branched, isolated trees ive abundant sap in the early spring. Beautiful for shade and ornament, the Acer saccharum yields sugar, lumber and fuel of high quality, and finally its ashes解
Comfort, appearance and self-interest, all unite to impel the owner of ground, small or large cate" readers, plant trees. To Farmer's Advoiterate the draw-backs of a tree-denuded farm or an unsheitered homestead. Long before anyone dreamed that the onslaught on standing timber would ever have reached its present stage, some of our forefathers in Eastern Canada seem to have been wiser, or at all events they took the time to transpiant to the roud sides, tine fences, and about the homesteads rows of saplings, from the timber lots, which in those days were not laid waste and bare orery sule are now, with herds of hungry catlo. Do not these farms beauty and cort in or beauty and comfort, as homes both in summer which they are invested ? They are more highly valued the their estate proposition are worth more in actual cesh. Such homesteads are an asset of which any country has a right to be proud, and to the general duplication of which every reasonable encouragemént should be afforded.
The farmer who plants trees leaves a valuable heritage to his sons, and does something that will help to keep the family on the farm.
Our readers are now planning the seeding operations and farill improvements of another season. We are well aware how seriously handicapped many are because the farms are undermanned, and efficient help is difficult to secure. Still, it will pay, and pay well even in the life time of any man to invest a little time and money in tree planting. There are two directions which the work may take, one for the beautifcation and sherter of the homestes, sorm lines or lanes In case of lines of trees along the south side of fields under cultivation, the planting should be less close together or the crops will suffer. For hedges and shelter, speedy and desirable results will be secured with Norway Spruce or Cedar which can be secured readily at reasonable outlay in most sections. The main reliance will be the maples and elms and some of the nut trees. In most sections the saplings are obtainable from existing wood lots, which are being preserved. Make a start this season even with a few trees, where they are most needed. The outlay and time will be trifling compared with the results and wil ensure iust as certa
anv spring work.
The other class of planting to be considered is the sther class of pratrion lots, and reforting . hillsides, or pertiuns of good tillable land shut off from ther portions of the land by streams wists or ravines. For this work, in the Provinc oi (ontario, the Department of Agriculture has de welored a sastem of co-operation for the assistarce of farmers directed by Prof. E. I. Zavitz,

College, Guelph. The seedling trees grown at the plantations in Norfolk County are furnished free, but the person receiving the material for planting pays the express charges to his nearest ofice. Directions are also given through one of of soils, varicers of the Department as to preparation subsequ, varieties to plant, manner of planting and are most satisfactory trees for distribution that the evergreens, such os white wine Scotch pine and white cedar. The nut trees for distribution and white cedar. The nut trees for distribution
requiring a deep, porous soil, are black walnut, butternut and chestnut. In addition to these are hardwoods, black locust, white ash, sugar, zoft or white maple and elm. Norway spruce is not sent out now as it has been proven that the work in experimental waste land planting and plantation work in general can be carried on just as well with the others named. Persons receiving these seedlings are of course in honor bound not to resell to neighbors but to use strictly for their own premises. The work is now no experiment the inaugur results secured have amply justifed will be continued this season and readers desirous of taking advantage thereol should at once put themselves in communication whth the Provincial Forester, at Guelph. The time is opportune. Make the season of 1913 memorable on your farm by planting trees.
For now the leaves are moving
Leat buds on every bough
Are reaching sunward, proving
How strong the spring is now
In every mid-rith's veining,
In every footstalk straining
Sunwards, new life is reigning,
For spring is in the land."

## Creameries and Cheese Factories as Local Industries.

In these days of bonused business, it is worth while emphasizing the importance of local butter he cheese plants as local industries. Within creameries, Winchelsea, Kerrwood visited three creameries, Winchelsea, Kerrwood, and Strathroy, hundred-thousand dollars a year. The output of the Kerrwood factory includes a little cheese, but that point is immaterial in this connection. The Winchelsea creamery has been worked up to its present porportions from almost nothing within the past eight years, while the Kerrwood business is a development of the past twelve. As the founder of the latter remarked at its reant annual meeting, many towns fall over themselves to attract industries of less importance and with smaller turnover, offering free site, free water, tax exemption, and even cash bonus. We o not believe in the principle of these bonuses highly thought of that bonuses worth are so twenty thousand dollars are eagerly handed out to draw them, surely we should prize highly the ocal dairy plants, which are, from every point dustrie, the best kind of local manufacturing inreameries ot only disbursing, as these two lars a year for labor fuel supplies, and solbut, at the same time. increasing the purchasing power of the surrounding farm community thus conferring a double benefit upon the village within which situated. If further argument is needed, talk to the branch-bank
managers, any of whom is keen to secure the

The Farmer's Advocate and home magazine.

# DTG THE DOMINION. 

PUBLISHEDD WBEKLIY BY
TBE WILTMAM WETTD COMPANY (LTIITED)
JOHN WEID, MANAGER.

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 nouted ifth thlo pappr ahould hot addroend ap THIE WILLIAM WELD COMPANY (LNMTTED),
local creamery or cheesefactory account. From every standpoint the local butter or cheese plant is to be encouraged and

Support the Local Factory
From the farmer's standpoint there are even stronger arguments for supporting the local plants than those enumerated in the foregoing is running in one's midst, he is guaranteed a steady remunerative market for his milk or cream. The cash returns may not always seem alluring when compared with prices offered by
condenseries or city purveyors, but when by-products are considered, skim-milk at 25 cents per cwt. and whey at fwelve cents, the returns are usually pretty favorable. The milk or cream is taken from one's door without the expense of hauling to town or railway station. Payment s, in most cases, certain, and the care of the milk is not so exacting as for retail trade. of late years many a local cheese or butter-making business has been cut into and jeopardized by the encroachment of large city supply houses and centralized creameries, which reach out a hundred miles or so, in some cases nearly two hundred, for they seldom or never take the whole output of a district, but cut into scores of the local plants, taking out the milk of enough patrons to spoil the local business, increasing the cost of manufacture, reducing the maker's wages or proft. and threatening the stability of his business, so that he is afraid to make pormanent improve ments. This hurts the factory, and threatens he interest of patrons as will ha makers. What would happen if these local plants had to be shut up? Producers would he simply at
the mercy of big corporations a hundred miles the mercy of big corporations a hundred miles
away. When they wanted milk there would the away. When they wanted milk there would be
a market for it-at their own prices. Whan they had enough the local producer could make buttion calves. Those who have studied the centralizad creamery business in the United States say it has
worked out anything but well for producers there. The agents come into a section offering big prices for cream, break up the established local business, and then have producers at their cold mercy. In Canada we hope the centralized creamery business may never develop along such unscrupulous lines, but even though honorably conducted, we do not bell it has anything to commend it to producers who aiready have access there is not a good solid case is different. In such cases the centralizer' agent may be welcomed. During the past yea or two, (thanks to the high price of butter) small local creameries have been established at several points from which the big centralized creameries had been drawing their supply, thus accounting for the distance to which the latte have been forced to send canvassers. If it is good Gusiness to establish a creamery near the centralized plant, is it not better business to hundred miles away ? Patronize your own
dustry, and protect your own support local in

## At the Helm of U. S. Agriculture.

 in Amadians are always more or less interested apply to agriculture. The work of the agricul with interest by the leading agriculturists this country, and consequently, at the presen time, this interest centers around David Franklin Houston, recently appointed to this position inthe Wilson cabinet.
The appointee is a college man of The appointee is a college man of wide ex-
perience. Dr. Houston was born in Monroe Union County, North Carolina, on February forty-seven years of age. He received his early education in the public schools and South Caro lina College, and received the degree of A. M


David F. Houston
The new Titad Stat Socertry
from University of Wisconsin in 1906. He we tutor in ancient languages in South Carolina College from 1887 to 1888 , and from 1888 to 1891 was superintendent of city schools in
Spartanlurg, S. C. From 1891 to 1894 he spent in the study of political to 1894 hat Harvard, was on the staff of the latter university as associate professor and professor of political
science for several years. From 1889 to 1902 science for several years. From 1889 to 1902 Texas, and from 1902 to 1905 president of the State, which and Mechanical College of the latter of the institution, where he remained until 19018 From September, 1908, until his present appoint ment he has been Chancellor of Washington Uni-
versity, St. Louis, Mo. His wide knowledge if advanced education should stand him in good political economy, so essential to the successful administration of the portfolio assigned to him
Dr. Houston is a member of the American

Historical society, and the author of "A Critical tudy of Numication in south Carolina. This tate named to allow certain revenue laws of the United States deemed unconstitutional to be xecuted within its borders.
Dr. Houston is an energetic man, well equipped predecessor James Wilso

## Nature's Diary <br> , Diary

It is reported that a shipment of nearly six undred English birds is on its way from to victoria, B. C., where the birds are to be pairs of goldinches, thirty-six pairs of linnets, thirty-six pairs of robins, thirty-six pairs of It may appea duction of foreign birds, some of them noted songsters, is very desirable, but it is, in reality,
highly dangerous experiment. highly dangerous experiment. Because a bird r mammal is beneficial in its native land, it is country into which it may be introduced. And surely the results. of the introduction of foreign irds and mammals, in various parts of the
vorld, have not been so happy as to warrant a wontinuation of the practice.
The house sparrow was first introduced in
1850 at Brooklyn, N. Y., in the belief 1850 at Brooklyn, N. $\cdot$ Y., in the belief that it This lot did not thrive, and in 1852 a second importation was made. In 1854 and 1858 the house sparrow was introduced at Portland, Me., ing the next ten years it was introduced. Dureight other cities in the United States. By 1870 had become established as far south as Columbia, South Carolina, and Louisville, Ken-
tucky, as far west as St. Louis, Mo., and Davenport, Iowa, and as far north as Montreal. Between 1870 and 1880 it extended its range by nearly 16,000 square miles, and during the next square miles, In 1888 it made than 500,000 in thirty-five states and five territories, besides occupying 148,000 square miles in Canada.
Now it has spread the length and breadth of the cultivated portions of the continent. As soon as the house sparrow was firmly
established in North America it was found that the warnings uttered by the ornithologists, at the time of its introduction, were only too trae, rain-eating pest and had been sadaled with a filthy nuisance. Then it was resolved that "the sparrow must go," and bounties were offered in many places, nests and eggs were destroyed, fire-vain-for it has not "gone", except to occupy ew territory. into Australian European rabbit was introduced So rapidly did they multiply purposes of sport. lative action for their destruction was begun, and since then millions of dollars have been spent for oounties, poisons and other means of destruction, ate the pest. The mongoose of India, a mammal well-known a destroyer of rats and snakes was introduced ding the cane-fields of rats. They increased with great rapidity, and at first a great decrease n the number of rats resulted. But the mon pigs, kids, and lambs also poultry snakes, and all ground-nesting birds. By 1890 the mongoose was considered the worst pest of birds, snakes, and lizards, which it effected, caused a great increase in injuripus insects.
The European starling was introduced into New Zealand in 1887. and by 1870 had become very numerous. In spite of its preference for in-
sects manifested in its native land, in its new home it has adopted a fruit diet to such an extent as to have become a great pest.
The skylark, the lingeti and the blackbird, all Considered beneficial species in England, have have developed food habits different where they manifested in their old home. The linnet has proved, destructive to grain, and the blackbird is With these cxamples before us, does it seem Wise for us to allow the introduction into Can-
ada of foreign birds? In the Tinited States a law has heen passed wiler which any person wishing to import live How is Ninc. Fusts? Because in any country the native Cowr. pects? Because in any country the native
strecies have, in the course of centuries, settled
an whilitinm. which we may term the an an anitinium.; which we may term the
tain checks upon its too rapid increase, when a species is introduced into a new country these checks are often lacking, and the form incests which are introduced inadvertently without pests which are introduced inadvertently withou going out of our way to introduce species which prove to be injurious. We would suggest that this importation of birds be shipped back whence they came, or else kept in large roomy a
in the parks of Vancouver and Victoria.

## "The Rural Problem

Four days of the first week in March were devot ed by I. B. Whale, District Representative, in Mid
dlesex Co., Ontario, to a series of farmers' meet ings in Glencoe. These meetings, while not largely attended, were one of the bright spots in the attendance up to the last evening The averag attendance, up to the last evening of the meet-
ings, was about forty, and, judging by the questions asked, interest was keen and much valuable information imparted. Mr. Whale discussed
weeds, seed weeds, seed selection and soil cultivation. D. box-packing apples, and W. F. Kydd, of Simcoe, gave a very instructive address on the care the orchard. The meetings came to a close to an able address by Prof. J. B. Reynolds, of the O. A. C., on "'The Rural Problem," and to
Dr. H. G. Reed, V. S., of Georgetown, on horse breeding and stabling of stock.
The Rural Problem has been discussed from almost every platiorm and through the columns almost every live journal in Ontario, but few, their theme, have so ably stated the this heir theme, have so ably stated the real problem and what is needed to remedy the
present situation as did Prof. Reynolds at this
meeting meeting.
The problem, as so often stated, is the ing moving away from the Ontario farms to the West and to the cities-the abandoning of farm life by boys and girls who were horn on the
farm. This is the problem. This is responsible farm. This is the problem. This is responsible
for the increased cost of living, which is directly a result of supply and demand. (Decreasing the number of producers means decreasing the supply,
and increasing city population means increasing and increasing
It is a matter of the atractiveness farm ng. If agriculture is an attractive occupation, rural population should not be depleted. Because a boy or girl is born on a farm is no
reason why he or she should be compelled to remain there. In a democratic country like Canada, every child should have the liberty of choosing his or her own occupation. We are not born
to any particular occupation in this country. Professor Reynolds was not in sympathy with the cry that we are educating away from the farm. He held, however, that advanced education unfits people for labor, believing that "an educated farmer cannot be a laborer." The
great need is to remedy the conditions of farm-
ing. The cry ing. The cry against the Collegiate-institute A university course is almost as likely to turn four-years' course at the agricultural college." Present-day agricultural education fits young men for other pursuits, and a large percentage of the graduates (four-year men) do not go into
farming, because their education opens their eyes to the possibilities of other occupations and to the disabilities of farming; but Prof. Reynolds stated that there is no better education to fit
the young man for the business of life than an agricultural college education. An education to be of real value should fit a man for life. The
blame is not in education, but in the conditions of farming.
Professor meynos farm life attractive?" asked of nature and the charm of farm life he called
 talking "fresh air," "nature," and "indepen-
dence." These are factors-accessories, but not the life. $\begin{aligned} & \text { Farming is unattractive because of the har }\end{aligned}$ labor involved, but hard work shound drive people away from the farm. "If a man is look
ing for a soft job let him get away from the this. Sounch a man is no use anywhere, and
this has no place for him. It was the this country, and are still making it. Right here is where Prof. Reynolds struck the keynote
of his address, "Too often on the farm hard of his address, "Too often on the farm har
labor is not associated with mental interest The man is merely a laborer and not enough o
a business man and not enough of a scientist and the sooner farmers learn that agriculture is
a science the sooner they elevate their occupa a science the sooner they elevate their redeem
tion to a business. The one touch to re
farming is to

Another recessary factor is that farming must be made relatively profitable. One can never be a the chief end of our lives. A few sacrifice the prospect of being rich, provided that in their making a fair living and doing good to citizen ship. The idea of service is the one thing which makes business worth while. Farm produce 1s
wealth in wealth in the divinest form in which wealth is
produced, but the business of farming must produced, but the business
To illustrate the significance of work on the farm which will appeal to the intellect, Prof. Reynolds produced the figures oltained through
the own farm. The proceeds from cow year on his months were $\$ 122.71$; the cost of feed $\$ 19.00$ net profit, $\$ 73.71$. Cow No. 2. milked 1 year Croceas, $\$ 127.90$; feed, $\$ 52.90$; profit, $\$ 75$. feed, $\$ 51.70$; profit, $\$ 74.12$. profionths; proceeds, $\$ 85.79$; feed, $\$ 47.50$ proft, $\$ 38.29$ In this group it will be noticed
that while the cost of feed for cow $\mathbb{N}$. nearly as much as that for each of the othere No. profits were only about half as much. Cow
 6, milked 3 months (winter) ; proceeds, $\$ 25.32$.


Christopher North.

## President Wilson's Program.

## $t$ Woodrow

 Wilson, at Washington, he gives the following re arkable opinions of the duty of the new Amerihingevenmert in relation to the peopie. Of arim that ought to be altered he cites :- A the which cuts us oul from our proper part in iples of facile instrument in the hands of thovernment a banking and currey system based the necessity of the Gorernment to soll its bonds fitty years ago and perfectly adapted to concentrating ash and restricting credits; an industrial system which, taken on all its sides, financial as well as administrative, holds capital in leading strings, restricts the liberties and limits the opportunities of labor and exploits without renewing or conserving the natural resources of the country; a body of agricultural activities never yet or set efficiency of great business undertaking as should be through the instrument ality of science taken directly to the farm, or af forded the facilities of credit best suited to its watercourses undeveloped, wastepleces unreclaimed, forests un-
tended, fast disappearing withplaces unreclaimed, earing with
tended, fast disappeat if out plan or prospect of renewal,
unregarded waste heaps at every mine. "Nor have we studied and
perfected the means by which perfected the means by which service of humanity, in safe tion, the health of of the na-
its women and its children and its women and its children, as
well as their rights in $t h e$ struggle for existence. This is
no sentimental duty. The Arm
basis of Government is justice, basis of Government is justice,
not pity.
Society must see to
it that it does not itself crush it that it does not itself crus
or weaken or damage its oww or weaken or damage
constituent parts. its
he firs duty of law is to keep sound the
society"it serves. "This is nota day of triumph; it is a day of dedica-
tion. Here muster not $t h$ lorces. of party, but the forces upon us; men's lives hang in
the balance; men's hopes call upon us to say what we will do.
Who shall live up to the great trust ? Who dares fail to try patriotic, all forward-look-
ing men, to my side. God help
ing me, will not First-prize Hackney stallion under 15.2, and champion of the breed, at the they will but counsel and susEastern Ontario Live-stock and Poultry Show, Ottawa, 1918, Exhi- tain me
feed, $\$ 16.20$; profits, $\$ 9.12$. Cow No. 7 , milked
3 months (winter); proceeds, $\$ 19.11$; feed $\$ 16.00$; profit, $\$ 3.11$; and cow No . 8, milked profit, 33.78 , Three of the cows in the firs group more than paid for themselves in th first milking period, and this last cow, which cost 72.00 , is likely to pay for herself in eight it would take eleven cows like No. 7 to yield profit equal to that of No. 8. This should appeal to the intellect, should encourage the adopin charge of these cows became intensely in terested, seeking to ascertain the cause of every fluctuation in the milk flow.
banch leads to interest in others. The rural problem is a practical matter. We
must engage our minds. in the business of a good many farms is responsible for so many abandoned farms, concluded Prof. Reynolds, and this also he believed was
the cause of farmers having had for so long to bear the cause of farmers having hardens of the world. "Why should the farmer not get what is coming to him ?" There is relatively too much time spent on productio ignoring the marketing end over be solved until we get some measure of co-operation in both produc tion and marketing. Country boys and girls are going and wis cond girls are beginning to bo the country. This latter is a good feature, for the city boy is instilling a certain amount of business training into the country, is bringing city conveniences co the country home. In time
the flow from the country to the city and from the city to the country will, to some extent, balance. In the meantime use the intellect and make farming a business

## A Canadian in Wilson Cabinet.

 The men of the Maritime Provinces of Canada of them appears in the new cabinet of President Filson, at Washington, as Secretary of the In erior. He is Franklin Knight Lane, who was orn in Prince Edward Isla 1864. He was He was a candidate for Governor on the Democratic ticket in that State and received the vote of his party for Senator. He has for years mission and represents the United States on the mission and represents the United States on theInternational Railroad Commission.

## HORSES.

Among a long list of "rules" laid down by the lowing lowing are a few
A heavy-draft horse should never be driven
faster than a walk, with or without a load. Teach your horses to go into the collar gradually. When a load is to be started, speak to the horses and take a firm hold of the reins so that they will arch their necks, keep their legs unde
them and step on their toes, a loose rein means sprawling and step on their toes, a loose rein meane
and ahead of the other.
Avoid these harness fanlts,-bride too long or too short; blinders pressing on the eye or flapping ; throat-latch too tight; collar too tight or breeching too low down or too loose; inside reins too long in driving a team
Drive your horse all the time, feel his mouth
gently but never jerk the reins.

## Are Blinders Necessary?

Editor "The Farmer's Advocate.
At least two-thirds of the horses we meet on the public highway have their bridles decorated
with blinders. I use the word decorated advisedly, for it is somewhat difficult to under stand how the custom of coyering the horses' eyes should have become so general when there is no good reason for the practice. It seems to me, and I am sure if the greater number of your agree that, except in cases of defective sight, the blinder is not only useless but positively objectionable, rendering its wearer a prey to start and fears to which he would be a stranger if he
could use his eyes. A horse, it is claimed by renowned horsemen and can be proved by careful observation, does not see directly ahead of him, but his line of vision is obliquely outward and forward so that the blinker placed, as it is,
parallel to the side of the animal's face, is bound to interfere with a great portion of the field of vision. We find horses that are ridden without
blinkers wearing them when put in harness blinkers wearing them when put in harness, and
the reason given reflects little credit on the owners' common sense or eye for the beautiftul. Nine out of ten will quote "fashion"' as the
reason for wearing them. Because it is the "fashion". the horse is subjected to what must be torture to him, so that he may not look unpeople would inaugurate a fashion of no rlindors, pearance is greatly improved by his beautiful eyes being visible.
Some who would really like to discontinue horse has been used to them it is impossible to drive him without them. Those, however, who have made the experiment, myself among the a little patience and increasing common. With explaining things to the horse, he soon accustoms himself to the change. Others imagine that though a single horse may go all right without this also has no foundation.
People who value their own safety will be wise to discontinue blinkers, for a a horse who can any difficulty or accident is much quieter and more reasonable than one who is terrified by not people could what is going on around him. If nervous, is also a highly intelligent animal, the would not subject him to treatment which would confuse and frighten themselves and the horse
and accidents would be very much less frequen Those persons who cover up their horses' eve seem to forget that the animals have very sen sipproach of something (the half blind horse can not tell what). If he could see he would not bo can he, owing to the blinkers, see that the terror is no longer pursuing him, and as he bolts madly along he imagines it is still coming after him. he is still unable to tell when he has passed it and continues to fear it when he has left it far vehind; while the frequently senseless conduct of his driver, in whipping him for being frightened,
only serves to convince him that the thing he has seen or heard has hurt him. The wonder is that horse accidents are not more numerous whan they are, considering the irrational way in and driven.
Carleton Co., Ont.
[Note-Contrary to the belief that a horse without, he will not usually do so, but a horse accustomed to an open bridle and suddenly compelled to wear blinders will give all kinds of
trouble. The writer has in mind a reliable but spirited heavy-draft team which had been which, when a new harness was bought, were arced to wear blinders, and the consequence was
a serious runaway the first time hitched in the new harness, all caused by a covered buggy ap-
proaching the team from behind and passing at a rapid rate. These horses were thoroughly accustomed to covered buggies, but upon not be
ing able to see the approaching object they ing able to see the approaching ohject they got
excited, and although previously never known to
do so commenced kickinct and do so commenced kicking and running away at
great speed. One of the homses foll in the run-
away, and the driver was stopped. Iniuries were not spriouc, Iont had the
horse not fallen could not have proved as the team was a valuable one and the waggon carried fourteen pigs, and besidds all this the
driver's life was, in great danger. This is only
one of many such incidents which could be notad Discard the such incidents which could be noted Break the colts to the
Dinen bridle, and give them an opportunity to sc
open for themselves everything before, by their side
and behind.-Editor.]

Must Get Rid of "Scrubs. Editor "'The Farmer's Advocate." :
I have read '"The Farmer's Advocate" with great interest, and I am of the opinion that
there is no better agricultural paper offered to there is no better agricultural paper offered to
the people. Notwithstanding repeated advice of the people. Notwithstanding repeated advice of
experienced horsemen it is dificult to persuade experienced horsemen it is dificult to persuade mating the brood mares with sound sires. But to meet those requirements is rather a serious
matter in this part of the country, when we have so many inferior horses standing for service at the paltry service fee of seven and eight dollars for the country. This kind of scrubs is ruining not compete with these scrub prices, and until something is done to reduce the scrub. little can be accomplished regarding the improvement of in time, Perhaps the government legislation will, time is too valuable to wait. Why not follow up the Old Country method of having a premium orse of highest quality, pedigree and best of horse the service fee would require to be from wwenty to thirty dollars per colt, but the extra expense would be far more than made up in the tation in saying that there is not forty per cent of the agricultural horses sound around this part of the country. Breeders ought to exercise a little of care in choosing what is to become the sire
of their colts. I would advise breeders to more attention to the pedigrees of sires, for good breeding always tells in all kinds of stock. Let us remember the fact that the colt inherits fire. No douthe it is difficult for farmers in this
sire country to fully understand the pedigrees of imported horses containing the blue blood of ScotBaron's Pride, Prince Sturdy, Sir Hugo, Baron of Buchlyvie. Everlasting, Oyama, Silver Eup Momento, Silver Crest, Acme, Sir Everard, Frlando, Hiawatha Godolphin, Radium, Royal Blacon. Cimaroon, and Up-to-Time and all tho passing through such sires as Prince of Wales, Darnley and MacGregor, are more likely to lease every lover of a good Clydesdale. Now
breeders patronize the horse wilh substance, size and quality regardless of service fees, and it will be interesting to watch the yearly improvement of your stock. I may state that I have handled and England, and I think Canada ought to bo the main center of the horse industry, only a little more judgtment on the part of the mare soon be a thing of the past.
Huron Co., Ont. MATHEW WALKER.

A Practical Horseman's Advice.
The following are a few practical points from Georgetown, Ont., at a farmers' meeting recently held at flencoe, Ont. :-
The weakncss in stock breeding is carelessness,
not ignorance. Do not go to extremes, always breed the mares tempt to get the best colt by breeding a mare hort in pasterns to a stallion extremely long in the pastern, but use the one with the ideal length
and obliquity of pastern. If your neighbor's stallion is a scrub do not use him even though his owner may be a "nice" ellow. "No man can afficr to take $\$ 50$ out of
his own pocket to put $\$ 10$ in that of his neigh$\therefore$ The foal at its birth is in just as good condition as his dam." Condition here does not refer to flesh. An excessively fat mare is not in respiratory, circulatory and nervous systems are hot in as good "condition", as if she had been regularly exercised and the excess of fat not allowd to accumulate. A mare is more likely to a little thin and has done daily duty in the harness than if she has been highly fed and exercised Give the hrood mares the farm work in winter, the geldings stand idle. ldleness will injure them Whan the mares. ITave an antiseptic handy, as a ten per cent solucal cord as soun as the colt is foaled, and once tirely healect over. Apply with a clean sterilized Prepare the box-stall for the mare about to Ton). Clean the walls. Whitewash them and disinfect with a strong disinfectant, as carbolic
acid solution. Keep the box well supplied with

The man who wishes to make a success of draft-horse breeding must be a liberal feeder. An adult drafter should weigh from 1500 to 1600 lbs. weight at a year old. Consequently colts must be well fed.
Horses in Canada spend too much time shut The best winter feeds-Clover hay, alfalfa hay, Then cured, oats, brai and roots.
Ssary average farmer feeds more hay than necbefore him at all times. animal should have hay could profitably reduce the hay rations of their idle horses by one-half.
Overfeediqg on hay is a predisposing cause of night feed, the hay the horse will clean up at the morning and at noon, and if he be a driving horso ing and night. ing and night A careful farmer can feed 'good silage to a
horse. (Note the words "careful" and "good.") Where everything is normal whole oats are pre ferable to rolled oats, but for old horses, horses with ravenous appetites, and young horses teeth Breed the duaft horse and
avoid crossing, and if nature wonld have been an advantage to Ontario same as that which produced the mule, unproduc

## Wants a Minimum Fee.

I have taken great pleasure in reading the a ticles in the "Farmers Advocate" re the Stallion Enrolment Act, and agree with Mr. McVitty, and for crs, that the act should be amended to provide Mr. Mchity the agree with think each teed stalions should be graded, as I what horse suits his mare, and his own judge of possible to get a committee of donit it to judge and grade stallions, all over the country without being unjust to some owners. Ihink would cause a lot of ill feeling among those owners whose staliions did not grade No. 1. A much better way in my opinion would be to set a minimum fee of say $\$ 12$ to be charged for service of all stallions of a draft breed. This would at least put owners of good horses on nearly equal ground with "scrub" owners. There are very few breeders that would use a scrub horse when they same mone a good sound registered stallion for the same money, or very litule more. If the elimina ion of the scrub stalion will cause a dearth o dearth by all means dearth by all means.
For this district there travelled at one time feo from $\$ 2.50$ to $\$ 10$. They horses, run at colts, both being very sure hey left hundreds of for many years in this district. The they stood these grade hurses that I ever saw or heard of was sold this wluter for $\$ 235$, and he was head and shoulders above the rest. The other two were registered Clydesdale stallions, one a very being so be, and the other, a very unsound horse him in a trade for a little pat his owners got thirty or forty dollars. These two horses also of their colls, and nearly all good ones, many airs. Now, these prize winners at the local same fee, at the same tes stood for about the though I class of mares as the grade got about the Would we not believe they got as many mares. No. HII registered horses ? I say sit to grade them, we will get thein without breeding for Let us hear what some other readers think "INTERESTED."

It is reported that the Turkish Government cavalry horses, but the price offered $\$ 140$ is so
low that it is to fill the it is also said that it will be impossible

Grain in the manger before the horse comes in
towhs lad. A tired horse should nibble hay for
wi) .

## LIVE STOCK.

A Discussion of Live Stock Questions Editor "The Farmer's Advocate." The letter of Mr. Peacock, in your issue o
February 2oth, is interesting to note.
He is the opinion that the small breeder is of insignifcant value to any of our educative institutions,
and more especially that part entailing his opten competition in the show-ring. He feels with many
other men who are breeding live-stock on iccale, that the large breeders are monopolizing the shows for their own financial betterment. But is he correct in assuming such a conclusion? Is
the large breeder gaining sutch a prominent hold on the best grades of livestock that it it hold
lees for a small breeder to gain admittance. or less for a small breeder to gain admittance. or
win? No. The small breeder has just as wroa and fair a chance to gain distinction, and tecome enrolled as a first-closss hreeder now as
any time in the history of stock breeding in Canada. The majority of cur prominent breeders o-da, we were competing for high honors task not many years age. The large breder
was always prominent and they were accenting was always prominent and they were accepting
inferior honors, when they felt that something inferior honors, when they felt that something
better should be forthcoming. But they were learning by open comparison of their stock with
others. by the criticisms of the judge and by others, by the criticisms of the judge and by
meeting and conversing
with men who had adopted the best methods of caring for and feeding their stock. The path of the stockman who has risen from a common pursuit to one of a
distinctive nature has never heen one of smooth distinctive nature has never heen one of smooth
sailing and never will be. It is only the breeder who can face opposition and meet judgment with ring. If he is not receiving his dues. as he sees it, he should pay attention to the difference in opponents animals. He will, perhaps, find that opponents animals. He will, perhaps, find that,
while his animals are of excellent development. that the market demands a different type, and
this is the ruling feature in the judges mind. his is the ruling feature in the judges mind.
He will also profit by learning the feeding methods adopted by the successful men as we know that care and feeding plays an important part in an animal's development. This, makes
the general show a place of educative value instead of stern opposition and hard feeling, and the breeders will profit beyond the material value of show-yard awards.
The assertion "our be benefited if we should exhibit our stock,", is - in onposition to an exhitition policy. It is not by encouraging him to show his animals as exwho is taking advantage of his oportunities and developing them, and we should encourage him
to show at all our exhibitions, even if he does not gain by it, the benefit will ' be noticealle and The small fairs might be criticized for not offering premiums large enough to invite the
large breeder to show. In tuis way the interest arge breeder to show. In tinis way the interest
is kept down, and no beneift derived by the livept down, and no benefit derived by the
livestock mand if sustantial awards were
offered. the object lesson in improved stock is more outstanding, and better animalls are sought
after by the breeders of that community.
This same lesson will apply to other branches of agriinterest until a method of drawing the prominent breeders was adopted, and the effort was
noticeable in the interest taken by small breeders and others who sought education from the mproved breeding methods exhibited in the anifrom having the judge state the requirements of
each class, followed by criticism of the animals entered and the reasons for placing. We often
notice animals entered in a class for which they notice animals entered in a class for which they
are not qualified, and unless the judge explains the breeder may to partiality or lack of judgement. ${ }^{\text {the }}$ A National Dairy Show would be one of the greatest movements toward dairy education that
might be adopted. The exhibit of dairy cattle Would be of great aid in bringing the foremost ground. It would do much to unify the type of
each breed of dairy cattle, and when accompanied by othee eetucative featureses as methods used, the
general breeding of dairy cattle would be much improved. The exhibit of dairy appliances would bring the diuryman in touch with modern methods of
manulacturing and handling the products of dairying. By having the machines in operation
the intending purchaser not only sees the test of one thachine, but of machines in competition, and troulle or expense. Such an exhibition and demonstration could not be otherwise than of
educctive value to the dairymen, and through
then tive then to the development of the industry. It is
way in a business age," and the highest form of
its adoption is none too good th be in keeping tes adoption is none too good to be in keeping
with our genoral agricullurul development.
ONE [Note-While on the matter of a National Datry show, why not advocate a national Show
of ginds of live-stock and farm products
Editor. Editor.]

## Barley for Pigs

Alwo months' feeding test has just been comStation, in which chopped barley was compared
with shat with shorts as a winter feed for young pigs.
The pigs used were early fall ceived no milk nor any commercial sulstitute for it. Up to the start of the experiment they had ,een thed on shorts, barley and feed four. Iots as nearly even as possible ; there were three
Berkshiree averaged slightly Yorkshire in each lot. They start. One lot received barley chop, and the small quantity of feed flour and some mangels. The quantities fed daily at the start were : Barley or shorts, two and a quarter pounds per
 were increased as the pigs grew. It was found and they were consequently given a little heavier to what pigs would clean up with relish. The grain feeds were purchased at the following rates
Barlev, $\$ 15.00$ per ton ; shorts, $\$ 20.00$ per ton; feed, flour, $\$ 28.00$ per ton. The mangels were


Strowan Clarion.
One of the stock bulls in Mr. Duthie's Shorthorn herd in Scotland, and sire of
grown on the farm, and we
per ton. The results follow :

 Gain per pig per day
Total amount of barley fed... 708
Total amount of shorts fed
Total amount of shorts fed...
Total amount of feed nour fed 248 t
Total amount of mangels fed. 488 t
Total cost of feed.............99.52
Cost of feed per 100 lbs. gain $\$ 10.58$
This
of course it would not always be possible to buy barley at three-uuarters cent per pound, but even if it were the same price as the shorts, the re- re
sults would still be decidedly in its favor. It is possible that the similiarty
and the feed flour made the ration that contained both not so palatable and well balanced as the one that had barley and feed flour, and part of
the failure of the shorts is due to that cause.

## Pig Feeding.

Editor "The Farmer's Advecte.
In the letter of Prof. G. E. Day, of the O. A. C., Guelph, I read that one of the greatest
troubles in feeding hogs dry meal, is that some troubles in feeding hogs dry meal, is that some
hors take a mouthful of dry meal, back up, and seater a great deal on the bround about a,
in most cases, be overme vy ading about a
pint or so of whole dry peas to the meal. S. K.

The Ewe at Yeaning.
Although many of the ewes in the country have already produced their spring crop of lambs the bulk have yet to yean, and a large proportion of these will give birth to their lambs between now and the time grass comes. Where the ewes lamb
 no extra pens are required.
ably seek $a$ quiet sectuded spot, away some diatance from the remainder of the Hlock. But where the ewes lamb inside, preparations for the event
should be made some time before lambs are exshould be made some time before lambs are ax-
pected, in order that everything is in readiness pected in in orrier that eriod comes. Evvery sheep pen should be divided by one or more partitions dur-
ing lambing time, and behind these partitions ing lambing time, and behind these partitions a
number of portalle- panels should be on hand to number of porta
place around place and thus give her the desired seccusion and
gexy, and
exempt her of the flock. A couple of these short panels hinged together, or even one placed across a corner of this pen answers very well. All ewes shourt have should be keption, and they, with their lambs, lambing to kept by themselves or a a fow days arter with ewes disowning lambs.
ing tie ewe should be in good condition at lambing time. That is she should be in good foenh, the wintor sufficient exerclise to keep the body At bear. Nany. bevinners thich she is called upon to
 until atter the lambs arrive and then "stuafing." True the feed should be increased after lambing,
 andos hat


 $\underset{\text { lambing very oubleng }}{\text { land }}$ and large, erakiy:
flahhy lambs result: must be very attenlambing seaso m . The grater por-
tion of the tion of the ewos
will go through wint go through parturtion witho
help, but in a tool
of any considerablo size there are al-
ways enough which ways enough which
will require atton-
tion to, if suct attion to, if such not
$t$ in $t i o n$ is not
given, cause iosies suffcient to take
of much of the proft of the burg-
ness. Then a large percentage of the lambs
attention at this time
The signs of parturition are few but distinct. The ewe becomes uneasy, seeks seclusion, showi signs of pains by pawing, lying dowin and getting por frequency and intensity she stretches on her side and remains there until she lamb is delivered.
the lamb is deliveres.
The normal presentation is head first, with the Ore legs forward. The attendant should, in casee
where the pains are of long duration, Bee that where the pains ire ormal Ilastiness in helphing the ewe should be avoided, and undue tardiness in
often dangerous. As lefore stated, where the lamb often dangerous. As before stated, where the lamb
is coming right, the ewe will usually expel it all right, but she can often we saved considerable unnecessary, weakening pain, by the attendant assisting gently, especially where the lamb's head
is very large.
Do not interfere until the time is very large. Do not interfere untit be, arrives
when the obstruction, whatever it may at the point where it causes the ewe to strugglo with violence to deliver the foetus. Press back on
the skin of the vulva. or pull forward and downthe skin of the vulva, or pull forward and down-
ward gently on the fore legs. Normal rear presentations are not uncommon, and in such cases, of course, the only thing to do is to assist the
ewe to expel the lamb in this position. Whero ewe to expel the lamb in this position. Where form, the opérator should seek first to straighten the footus into a normal presentation, and then proceed to deliver
As soon as the lamb is born, place it where in starting the circulation and warming up the lamb. Sometimes it is necessary to rub some of the mucous from the lamb on the ewe to start her
licking. As soon as possible, get the lamb to
suck. This is very important, and it is remaark
able how soon after being born the lamb will take a meal. This strengthens him quickly, and usually ewe's feed for a few days after lambing, when after the worst of the strain is over, she may
safely be put on a maximum feed. If she shows
aigns of garget, feed carefully, give a dose of Eigns of garget, feed carefully, give a dose of water, rub it dry, and apply a dressing composed of lard and turpentine. Sometimes, where the
lamb is very weak, or has been chilled, a tealamb is very weak, or has been chilled, a tea
spoonful of brandy and a rubbing beside a warm fire, will revive him. There are dozens of these little emergencies with which the shepherd must cope, but they are all more easily overcome a

## A Fine Beef Herd

Every breed has its strong points and its de
votes. As a "long-distance" milk producer, th Shorthorn of to-day must yield the producer, the special-purpose dairy breeds, but the Shorthorn satisfaction in eutering is certainly a sense of herd of big, strong, hearty, substantial cows, a bunch of well grown, thick-fleshed, two-year-ol pen or two of ten-months skim-milk calves that would tip the beam somewhere around eight hun nessed lately by a member of the ''Farmer's Ad vocate" staff, in the herd of Geo. Andrews, a pa ron of the Winchelsea Creamery in Huron County. "This one has about got her growth" re marked the owner dryly, pointing to a massive,
deep, thick-fleshed Shorthorn grade, that could
easily he made to weigh 1700 pounds This cow easily be made to weigh 1700 pounds. This cow was not one of his best milkers, drying up too readyy niter going on winter feed, but she pive drews said he had sold her call as a two-year-old for Christmas beef for $\$ 101$. Anyway ne had
sold nine head of which seven were two-year-olds sold nine head of which seven were two-year-olds
and two were yearlings for a total of $\$ 837$. We andieve he also said that ate two yearlings had brought $\$ 85$ aplece-not bad for baby-beef! He has some good milkers, and a very neat stable, according to the cream excellent quality of cream is headed by a full brother to the Cargill-bred bull recently illustrated in the "Farmers Advo cate.

We might add that in this stable we saw a 7 and pumping wate of a simple line shaft. These same timge by means
a weekly consumption with a. weekly consumption of one gallon of gasolin
Breaking Unmotherly Ewes.

Breaking Unmotherly Ewes. Prom time to time to make ewes own lambs. another case. Of course the old reliable method is to place the ewes in stanchions made of two oight or ten-inch boards, so that the ewe's head lambs when they suck, according to the motherly to the point of owning the lamb or lambs, but often it takes several days and occasionall
weeks. The ewe usualiy frets and this. together with the enforced lack of exercise pulls her down in condition, and her milk fow is elso impaired to the detriment of the lamb's wel-
lare. The ewe recognizes her lare. The ewe recognizes her lamb from the
smell of the lamb at birth. or from that which comes when her tmilk has passed through the Sometimes ewes which lose their lambs may ning the dead lamb and fastening the skin on the Where other a few days.
persists in disowning her own the whic persists in disowning her own progeny, try the
dog. All dogs are not safe for this work, but if the dog is accustomed to driving or being around the sheep and they are accustomed to
him. he will not be likely to injure them. him, he will not be likely to injure them. it would be folly to ruin a good sheep or a
good dog. Place the ewe and her lamb or good dog. Place the ewe and her lamb or
lambs in a box stall by themselves, and take the dog, in. Usually the ewe will object to the
dog's presence, and will seek to shield the lambs If so, this is all that is necessary. If she does or encourage him to lite her, and generally she expel the dog from the stall. This is not an infallible cure, but where other means fail is well with it on two different occasions. it requires remedy.
In milder cases. especially with young ewes In milder cases. especially with young ewes, ewe and her charge in a pen by themselves unti
she becomes acquainted with and interested in he she becomes acquainted with and interested in he
offspring, and the trouble ceases.

Feeds Soaked Meal.
Editor Having recently fed a bunch of eleven pigs, I will give you my methods of feeding. They got soaked shorts and what milk and buttermilk
there was at hand or water until about four months old. when a little barley and corn were added to finish them. All was soaked a feed the station, were weighed, and averaged 232 pounds at six months and one day old. Two I
kept for breeding, which, at the same weighed at home 236 pounds each, and the remaining one at seven months old, well fed, weighed
292 pounds (this was the best pig, fed a month 292 pounds (this was the best pig, fed a month
longer for home use). I for one am very much longer for home use). I for one am very much
in favor of soaked feed,
not too sloppy and thin. I think it saves quite la not too sloppy and thin. wise waste.
Last summer I had three pigs which were fed on water and drink. Two wheat, with lots crippled, and I blamed feeding dry chop as think it caused constipation and Indigestion which in turn was responsible for the crippling. kind of hogs you are deedind a upon what sults. I fed pure-bred Yorkshires.

| InchesbetweenPlants | Seed per Acre |  | $\begin{gathered} \text { Heads } \\ \text { pear } \\ \text { plant } \end{gathered}$ | Per Cent.of Headsper Acre | $\underset{\substack{\text { Height } \\ \text { (ins.) }}}{\text { cen }}$ | ( Per Cent. | $\underset{\text { Pust }}{\mathrm{Per} \text { Cent. }}$ | $\begin{gathered} \text { Days } \\ \text { Dato } \\ \text { Mature } \end{gathered}$ | $\begin{aligned} & \text { Pounds } \\ & \text { por } \\ & \text { bush. } \end{aligned}$ | Yield per Acre |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $1 \mathrm{ss}$. | bush. |  |  |  |  |  |  |  | $\begin{aligned} & \hline \text { Straw } \\ & \text { (tons) } \end{aligned}$ | ${ }_{\text {(Grain }}^{\text {(Bubh.) }}$ |
| 1 2 3 3 4 6 8 12 |  | $\begin{array}{r} 12.34 \\ 3.06 \\ 1.36 \\ .74 \\ .31 \\ .19 \\ .09 \end{array}$ | 1.0 1.0 1.1 1.3 2.0 6.2 6.5 11.2 | $\begin{gathered} 100 \\ 31 \\ 17 \\ 13 \\ 12 \\ 12 \\ 11 \\ 9 \end{gathered}$ | $\begin{aligned} & 00.4 \\ & 20.8 \\ & 32.6 \\ & 33.6 \\ & 35.3 \\ & 34.9 \\ & 34.9 \end{aligned}$ |  | 11.8 15.8 17.8 20.8 25.9 25.4 27.7 33.2 | $\begin{gathered} 91 \\ 93 \\ 94 \\ 94 \\ 95 \\ 97 \\ 99 \\ 100 \end{gathered}$ | 25.0 31.4 33.4 33.5 31.5 28.6 26.4 23.9 | 1.75 1.58 1.52 1.29 1.40 1.20 1.03 | 30.60 34.95 41.73 38.99 37.42 31.77 31. 21.93 |

Advocate" a treatment for of The Farmer's calves. I have had considerable experience in this matter, and I have not found anything cow. We have few feeds of new milk from any scoured badly, but a few small feeds of new milk changed conditions of bowels altogether,
and fits bowels now are normal and the calf and its bow
doing well.
Bruce Co.,
[Note--iAre refer is "white scours"? It would appear from the cure that it is simply due to deranged diges. tion, caused by overfeeding on skim milk or
something else.-Editor.]

## THE PARM

Thickness of Seeding in Cereal Grains
An address by Prof. C. A. Zavitz, Ontario Agricul-
tural College, before the Canadian Seed-growers'
The question of the amount of seed of the been discussed many times and in many places Fixperiments have also been conducted with the object of securing information on this problem in different countries, and yet we have reached no
unanimity in regard to the matter. We find, instance, in Canada, that the amount of oats which are sown per acre will vary from one to four bushels, and in Scotland the quantity frefind very strong advocates of using as small a quantity as one bushel of oats per acre, while others will argue as earnestly for the advisability It is undoubtedly true that the amount of acre. per acre which would give the highest results under certain circumstances, would not give the highest results under other conditions. There are mining the quantity of seed to use to give th best returns, each of these factors producing it own particular influence. The fertility of the
soil, the state of cultivation, the moisture col tent of the soil, the variety of the crop, the other factors, apparently exert their respective Influences in regard to the amount of seed to be
sown in order to secure the highest returns this be true, it can readily be seen that we can not come to a definite conclusion regarding the quantity of seed to use per acre of any class o
farm crops which would give the highest returns farm crops which would give the highest res
under all circumstances. I am pleased under all circumstances. I Rm pleased to pre-
sent at this time the preliminary results of an
experiment which was started at the Ontario

Agricultural College in 1909, and which has now An experiment has been conducted in each our years by using both large and small seed of , medium stooling, and light stoolof each variety in squares, one, two, three, four six, elght and twelve inches apart. The seed was planted by hand, and with very great care. Each and was surrounded by oats of the same kind, were ready to harvest, the surrounding plants would not be influenced by the paths surrounding the plots. After the seed had germinated and the oat plants had appeared above the ground, notes were taken in regard to the stooling of the plants every twenty-four hours. Other notes in straw, etc., were taken at the proper times. Fach plot was harvested with great care. The actual number of heads on each plot were countmined, and after threshing was completed, the amount of grain was subtracted from the entire crop, thus furnishing the combined weight of
straw and chaff. The following table straw and chaff. The following table gives the average results of thirty-two tests made by planting oats at seven different distances apart

## 

In an experiment of this kind, it is usually extreme conditions, hence in the experiment int extreme conditions, hence, in the thickest seeding way, which would require, on the average, a little over twelve bushels of seed per acre, and in
the thinnest seeding the oat grains were planted the thinnest seeding the oat grains were planted only about one-tenth of a bushel or a little less than three pounds of seed per acre. Some of the intermediate seedlings, however, approximate more actual practice, as, for instance, where the grains were planted two inches apart each way, it required about three bushels of seed per acre, and Where the seeds were planted three inches apart about one and one-third bushels per acre. We expect to start another experiment in which several different thicknesses of seeding will be used, but the range will probably run from about one The foregoing average results are worthy of
very careful consideration. It is very careful consideration. It is probably the
first time that an experiment of this kind has been conducted in the manner here described. It it
should be remembered that each column represents should be remembered that each column represents
the average of thirty-two distinct experiments Those experiments covered a period of four years,
which included an exceptionally dry season and an exceptionally wete weason. The seally dry usually obtain in tre Experimental Grounds we Guelph. This is due to certain reasons, one reasome of the years, and another reasonditions of fact that we conducted the experiment on land become wadly be unlikely to cause the straw to Even though this precspecially in a wet season. odiged considerably, especially in 1912, when the ield of straw of a succulent chive to a very large number of heads, or from the left shows that the he regulated largely by the of an oat plant can When the seeds were planted one inch apart each way, there was only an average of one head per
plant, and when the seeds were planted twelve eleven hearts pach way there was an average of diant increased according to the increase in the number of heads columm we have the comparative he seeds were planthed one inch of land. Where 144 times as many plants as on the same area of apart, and only about plevented twelve inches heads. It winl, therefore, be be times as many
the number of heads per acre decreases with the thinness of heads per acre decreases with the

According to the results presented in column six. the highest average crops were produced by
the plants which were planted in the six-inch squares. These plants were about five inches tal-
ler than those which were planted in the inch squares, and about one and one-half inches taller
than those which were planted in the twelve-inch squares. It seems apparent that where the
wiants a foot apart each way the stooling plants were a foot apart each way the stooling
was so abundant that the energy of the plant was expended he height to a limited extent. The refice of shown in the sixth column correspond, to a certain extent, with those in column five. It will
be seen that the plants which lodged the most be seen that the plants which lodged the most produced from the seeds which were planted six very thickest seeding produced a crop which was lodged less than any of the other seedings. These
results seem somewhat different from the popular conception that it is necessary to sow oats compancepively thin so as to reduce the percentage of
parain. the lodging of the grain
The average results of the per cent of rust shown in column number eight, is also very inter-
esting as they show a gradual increase in amount of rust on the straw of the oats from the thickest to the thinnest seedings. The plants from the thin seeding had about three times as much rust rust on the plants which were four inches apart was about average of that of the thinnest and the thickest seedings.
The average number of days from the time that the grain was planted until the plants were seen that there is a difference of nine days from the time that the thickly seeded plants matured
until the thinly seeded plants had ripened. The increase in the stage of maturity corresponds the plants. The farther the plants were apart
the later they were in ripening. It will, theretha later they were in ripening. It will, there per acre is incre
The average results presented in column ten, lhe other columns, regular throughout as some of esting. It will be observed that the heaviest verage weight per measured bushel was obtaine squares, and from this seeding there was a gradaal decrease in weight per bushel as either, the thickest or the thinnest seeding is approached. Toeding. It will be seen that a heavier weight of oatts per bushel was obtained where one and one-
third bushels of seed were sown. Although the veight per measured bushel, even in the highest membered that at least two out of the four years in which this experiment was conducbed, the weather conditions were somewhat unfavor-

The combined yield of the straw and the chaff presented in the eleventh column. These verage resuction it production it is thick. Even the land which was sown with oats at the rate of twelve bushels gave a greater yield of straw than the land which
was sown with oats at the rate of three bushels per acre. With only a slight exception there is aradual decrease in the yield of straw and chaff ngs. It is interesting to note, however, that
three pounds of oats produced more than onethree pounds of oats produced more than one
half the yield of straw as obtained from four seed per acre. In the last column, which may be considered
In (414) pounds of oats as In the last column, which may be considered
as the most important of all, we find that the greatest yield of grain per acre was obtained
from the oats which were sown three inches apart each way. From this yield there is a gradual and the thinnest sowings. It is very interesting to note that the yield from three pecks per acre
was four bushels greater than that from the crop obtained from sowing three bushels per
acre. The results here presented favor rather thin seeding as against thick seeding in the production of oats.
Particular attention should be drawn to the fact that in the experiment as here acre when one and one-third bushels of seed per acre weater
placed in the land very evenly gave a greater
yield yield of oats per acre, which weighed more per
measured bushel, than that obtained from either measured bushel, than that obtained from either
three bushels or from three pecks of seed per are very suggestive, especially as forming a basis of other experiments which are to follow. In
another year or two we expect to present the reanother year or two we expect to present the re-
sults of this and other experiments which we have
under way in a more detailed manner. When
thill under way in a more detailed manner. When
this material is submitted we believe it will add
regard to both selection of seed and the stooling
properties of ond tion in addition to the information furnished in regard to the thickness of seeding of this most

## Mixtures in Root and Vegetable Seed

The final session of the Canadian Seed Grow discussion annual meeting was devoted to a presenting a paper on the results of two vears' work in testing field-root seeds of commerce to prove genuineness of stock, E. D. Eddy, Chiel Seed Inspector, Ottawa, pointed out the great same variety or strain in seed listed as the also the wide or strain by different seedsmen, and one lot of seed contained only 20 per cent. Globe roots, there being 70 per cent. Eikendorf and 10 per cent. Intermediate, with 6 per cent. of the roots yellow Many other instances were cited to show that much of the seed now on the market is not true o variety name.
Thos. Delwort
Vegetable Gelworth, president of the Ontario market gardeners find the same trouble with vegetable seeds, and they are willing to pay al-
most any price for seed that is true to name and suited to the conditions under which it is to Geo. H. the means of improving the seed that the principal reason why so much root and on the mark not true to name is being put always buy from reliable growers who can may not have been properly selected, or may have been cross-fertilized in growing. If farmers
fully realized the advantages of securing the best fully realized the advantager of securing the best
selected seed and were willing to pay the price for it, our importers would have to bring in hoot and vegetable seed sold in Canada is procured from the cheapest and unreliable growers. The production of home-grown seed, that experience may show can be grown profitably in
any particular part of Canada, was advised. POSSIBILITY OF GROWING VEGETABLE AND W. T. Macoun SEED IN CANADA.
W. T. Macoun, Dominiou Horticulturist, Experimental Farm, ottawa, presented a summary growing vegetable seeds. A large number of roots have been grown at the Experimental Farm
at Ottawa, including a very superior strain of tomatoes, and also at a number of other points. Information gathered from different parts of the country seemed to indicate clearly that a great many kinds of vegetable and root seeds can be success commercially is yet to be proven. The great dificulty is in securing labor cheaply
enough enough to make
European growers
The results of some preliminary work in growing root seed at Macdonald College, Que., were grown and best imported seed were shown in
germinating dishes which demonstrated the supergerminating of the home-grown seed. Mr. Bauing cited the success that has been achieved in growing Swede turnips in yarmouth do. in districts an instance or what may oed any particular
adopted to producing see
plant. Mangel seed, evidently superior to the plant. Mangel seed, evidently superior Macdonald
imported seed, has been produced at Mal
College, and while there is not sufficient evidence College, and while there is needs can be successfully grown in Canada, it will likely be found that there are many districts where certain sorts can
be produced to advantage. be produced to advantage

Save the Liquid Manure.
With proper care three-fourths of the nitrogen in the crops grown and fed on the farm can be
returned to the soil, says Porter Elliott, an inreturned to the soil, says Porter Elliott, an in
structor for the College of Agriculture, Ohic structor for thiversity. If, however, the liquid part of the manure is allowed to escape, only a small
part of the nitrogen will be saved. A ton of part of the nitrogen will he saved. A ton of
clover hay, for instance, has in it about 40
for pounds of nitrogen. When fed, 10 pounds, on
the average, is retained in the animal body, 10 pounds is voided in the dung, and 20 pound
passes off with the urine. If the urine is los then only 10 pounds or one-fourth of the
nitrogen in the hay has any chance of going back nitrogen in the in the manure spreader."' Tigh Mr. Elliott as a means of preventing this loss.

## Getting a Catch of Clover.

$\qquad$ the most important branches of mixed farming and in view of the fact that many have difficulty in getting good catches of this crop, we con the experience of some of the most successful growers in this country. Accordingly a, lette
bearing the following questions was sent out to several successful growers. 1.-Of the va 2.-How much seed do you advise sowing pe acre, when the crop is sown alone or when mixed
with time with timothy?
8.- Do you sow in front of or behind the grain
drill, or do you use a separate machine for supplying the seed, or sow it by hand?
4.- What nurse crop do you consider best, and 5.-How much seed of this nurse crop do you sow per acre ?
6.-Do you get better results from early or
late seeding?
7.-What class of soil do you find best. suited to the growing of the clover crop? 8.-DD you dive the soil any special prepara-
tion other than that which it would receive for tion other than that whin
an ordinary grain crop?
9.-Do you innoculate the seed?
10.-Do you find that relatively poor soil gives much greater difficulty in securing a catch ? catch sowed with an early-maturing crop catch sowed with an early-maturing crop as
against that shown with a late-maturing nurse 12.-Do you ever pasture clover in the fall after spring seeding ? advisable to leave a long stubble to hold the snow on the clover during the winter, or do you
14.- Do you test your seed before sowing ? seed gives letter results than the lighter-colored seed, if the latter is as plump as the former?
Of course, there should be a difference if the latter were shrunken or inferior seed.
A. W. Peart, a prominent grower in Halton County, replies as follows : between the first and tenth of A sow usually period of the opening season, when it freezes at night and thaws out in the day-time. The frost honeycombs the soil; the seeds drop in to a
greater or less extent, and are covered up by the thawing process and subsequent rains. When sown on barley or oat land, I set the seeder at
tachment to discharge the seeds behind the drill spouts, then cover with a light harrow or rolle 2.-Etight pounds of red clover seed, plus four pounds timothy; or, four pounds red clover, plus The latter is my favorite milituire, 8.-Behind the grain drill, or we use a small
centrifugal hand machine to ensure uniform distribution.
4.-Wheat or barley-the clover is less shaded, and grows stronger and more hardy. one bushel of oats.
6.-Early-that is, around April first.
7.-Light, elay loam or gravely loam; on heavy
clays and light sands we find it more difficult to get catches.
8.-No.
9.-No. We have not yet found it necessary to do so, but if soil conditions were not suitable 10 - -Yes. We find that heavy clays and light sandy soils require extra preparation, and give manure. Here is where inoculation might profitably step in.
11.- I prefer the early-maturing nurse crops
where practicable. The clover gets the use of
the the land sooner. 12.-That depends upon the body of growth
the young clover has made. Where it is thick and rank, five or six inches high, i sometimes clover should not be pastured that season.
13.-I leave a reasonably long stubble both 13.- I leave a reasonably long stubble both
for summer protection of the young plants after harvest, against the sun. and also for winter protection.
14. - No.
I buy
No. 1 seed, and it does not fiten fail me general principles, without any special data to speak from.
I consider
I consider. clover growing the sheet anchor of plant in ftself as a food, the mechanical power of its roots in lereaking up and granulating the soil, and its fertilizing properties, due to its
ability to abstract nitrogen from the air by
functions place clover in a class by itself, as an
instrument on the farm for reducing the cost of production on the one hand, increasing the farm output on the other, and still conser In sou
necessity.

Home-made Cement Fence Posts the country drive abroad through any part of scribing. The the fairm of Michael Elford we were shown some very good home-made cement fence posts, both anchur posts and line posts. The anchor posts are molded in galvanized iron molds, the edges of which lap and are held together by removable iron round, 14 inches in diameter at the bottom tapering to 10 inches at the top. The materia is coment and gravel mixed 1:6, and the only meinforcing is a piece of old boiler flue imbedded in the centre but not reaching quite to top of bottrom. A wagon-load of gravel makes four or
five of these fosts, and the cost of material for ach has been figured out to seventy five cents. The smaller line posts are made seven and a half ceil Iong, with square corners, being seven and a at the top. They are reinforced with a strand of twisted wire placed in each corner in this
wite. After a little cement concrete has been phaced fn ther mold, whithe lies concrete has horizontal boen tion on a smooth floor, a double length strand of
this twisted wire is bent into a U-shape and laid this twisted wire is bent into a U-shape and laid
in the mortar. When nearly filled, another such in the mortar. When nearly filled, another such the wire never comes against the face of the mold. The posts when made are left a day to make about forty of them a day. These posts
when erected have a vertical face to which the wire is applied, and the opposite face batters up making the size less at the top than at the bottom. To hold the wire, staples are inserted in the vertical face when making, so spaced tha rest on a staple. The staples project three
quarters of an inch or so and a vertical wire runs quarters of an inch or so and a vertical wire run down through them, the horizontal wires of th
fence being confined between this loose stay-wir and the face of the post. Speaking from memory, our informant thought a wagon-box of gravel would make twenty to twenty-two of thes

## More About Boiling Sap.

Editor "The Farmer's Advocate." February 13th, the method for boiling mapie syrup is very good. The only objection is when fresh sap poured into the ordinary pan this, some in our vicinity hang a kettle behind he pan. In this kettle the sap is put in as it the pan. An this kettle the sap is put in as it inches from the top, a hole was bored in by a blacksmith, and a half-inch pipe, four or five
inches long, inserted, (so as not to leak, of inches long, inserted, (so as not to leak, o
course, tank or barrel, where sap is stored, or from g water-tight box especially made for the purpose
by a common barrel faucet and a piece of evetrough. The faucet is regulated so as to revill evaporate. The outnit is in this way mor kettle, becomes warm and through the little the it runs into the pan. It being warm does not affect the boiling of the sap, consequently saving
time and fuel. It is a little difficult to get a time and fuel. kettle in properly, so as io leave no smoke ou Another pan of the width of about two feet In length, the same as the width of the larger placed behind large pan. A small tin tube is inserted in pan, same as in kettle (if small pan
is used it must be set two inches higher is used it must be set two inches higher
than the other to spout in the large pan). This than the other to spout in the large pan). This
is even more profitable, because the sap gets is even more profitable, because the sap gets
much hotter in a pan than in a kettle. It often even comes to a boil. hot before it comes into the pan-procure empty
carbide boxes if you can, fit them together and use as a smukestack. Fut tarrel behind fire place, have a pipe inserted in the harrel and
Lore holes on both sides of carbide box (one towards pan, other at back) as large as pipe, put a faucet on pipe which is thrust through holes
in smokestack, the enormous heat passing through the smokestack will warm sap as fast as Waterloo Co., Ont.

## THE DARY

## Keep Up the Profits

May 1 offer a suggestion to our worthy Prof. nean in connection with his letter appearing in your issue of Feb: 27th, entitled, "Keep the Exthey proceed to the old dairy district of Oxford , ple milk-products factories, actories which a few years aco were largely assisting in in years ago, were trade in cheese. And although the "atmosphere" may be suffocating and the people may be found they are still capable of exercising a measure of discrimination which qualifies them to know whether they are reulizing a better return or their milk and their labor in producing it,
than if they were engaged in keeping up the ex chan if they were engaged in keeping up the ex-
port trade in cheese. The dairying business may have an aesthetic side. Possibly some men have ound it; but my observations from a lifetime onnection with it the producing end for a long living is in it; that if one branch of dairying is more remunerative than another that branch will be favored. The town and city milk trade, the cream trade, the cream-export trade as well the creamery, all are competing with cheese pro-


The late Dr. Carl Gustav Patrick_De ${ }_{\text {at }}$ Laval Whose death was announced in "The Farmer's Ad
cate" of February 27 th, inventor of the centrifuga cram separator, and founder of the cream separato Company which bears his name. Dr. De Laval has
been called "The Edison of Dairying." enter largely into cheese production. What, with decreasing rural population, an increasing cit
and town custom, etc., can be expected than that those branches of the dairy business which an least remunerative shall feel the effect of curtail-
ment in production, if such there be? And it is that "the farmers have nothing to say regardin the management of their affairs," not that they re "being strangled" even though these state population that will not respond the farming production of cheese that is being demanded. The easons are wholly economic. Give us satisfac tory labor to assist us in our work, assure us o ing than from the others, direct the energies the thousands who are engaged in profitable meat producing, or fruit growing industry, to dairy production by making it more profitable than any bringing about this end will need to ber bread among the rural districts of good old Ontario, or have any fear of stoning when he comes
to present his novel twentieth-century drame he crowds who will assemble to do him hano "Keep up the Export Trade" is a good slogan
for the dairyman. "Keep up the Profits" is a Middlesex Co., Ont

Parturient Troubles in Cows. RETENTION OF THE AFTERRIRTH O foetal membrane
Retention of the afterbirth (frequently called Retention of the afterbirth (frequently called
the placenta) is not uncommon in cows. It is noticed in cows in all conditions and in all seasons. While probably it is more frequently met
with in cows in low condition and unsaniter with in cows in low condition and unsanitary
surroundings, no care, food or surroundings as a preventive. We cannot understand why it occurs, or why it canuot be prevented, but ex perience teaches us that such are the facts ly, or at most in a few hours, after parturition While in others it is retained for 24 hours, even longer, and then spontaneously expellod.
And in others sfontaneous expulsion And in others siontaneous expulsion will nu
take place except after decomposition, when escapes in pus and small pieces
dent by the protrusion through the vulva of portion of it, but in some cases this symptom is not present, the membranes being wholly ictained
within the uterus. In such cases, providing the cow has been untied it is hard to know whethe they are retained or have been eaten by the cow Cattlemen are all aware that cows have the ob
jectionable habit of eating the afterbirth jectionable habit of eating the afterbirth. We
cannot account for this taste. When possible it stoould be prevented. In some cases it does not aippear to affect the nuimal in any way, in other
it causes more or less derangemen it causes more or less derangement of digestio and consequent iness, while in others it cause,
death. The placenta contains a large number of arteries of various sizes. The coats of these ar largely composed of what is called "yellow When the mass is taken into the sto indigestible tissues appear to be digested, but the arteries, (at east iu some cases) remain practically intact reach the fourth compartment, form a ball, This interferes with digestion, and if this ba reaches the pylorus, (the exit from stomach to in testine, follow, Hence occlude while derionth will soo rare, it is wise to prevent consumption of ar placenta by the cow, while it is wise to allow cow liberty in a box-stall, or paddock during
parturition, it is well to parturition, it is well to tie her afterwards, unt Some claim that it is wise to allow to take its course when the afterbirth is retained that manual removal is not advisable, but this removed it dor experience, when not expelled o removed it decomposes, and in most cases inter
feres materially with the health and thriftiness of the cow, and there is danger of absorption int the circuiation of some of the pus, which may be
followed by death from blood poisoning. While comfortable quarters sanitary purroug. Whil clusion from draughts and cold water, and allow ing warm drinks and mashes for a day or two atter parturition in cold weather, tends to favo
spontaneous expulsion, it does not spontaneous expulsion, it does not always ac
and we find that when nature fails to medicines are also useless, and the only means o removal is by the hand. Just what length of
time should be allowed to elapse after tion before it is wise to interfere, depends parturi some extent, ${ }^{\text {is }}$ wise to interfere, depends, the weather. In warm
weather decomposition tomen weather decomposition commences quickly, and it
is not wise to delay interference is not wise to delay interference longer than 24
hours, while in cold weather it is safe to allow
48 hours or even 48 hours or even longer. cattleman must decide operate, the owner or skill in the matter are sulficient to warrant his ploy a veterinarian. If the cattleman to em knowledge of the anatomy of the parts, has
patience and is not afraid to tackle a tediout patience and is not afraid to tackle a tediou
and dirty job, he can operate himself, otherwis
it will be profitable pail of antiseptic solution should be made, as a warm one per cent. solution of Creolin, Zenoleum cent. solution of carbolic acid or and a half per A couple of gallons of this should he injected a syringe with a long noze an injection pump, to be introduced into the The end of the tube high, and the fluid poured into it and allowed to enter the wornb by gravitation. The hands and
arms of the operator shold washed with the operator should be thoroughly oiled. Before commencing the then thoroughly
finger. finger. nails of che operator should be trimmed to
prevent scarification prevent scarification. The hand is thimmed to
duced into the womb, an attend cow's fail and koeping her steady. The ong ang the will discover (if he does not. The operator
that there are many ( 50 to 60 ) lumpl know) cotyledons) varying in ( 50 to 60) lumps from that of the end
of a man's thumb to three or four ine diameter attached to the womb or four inches in
nerks. He must be careful not

If a few be removed the consequences are not shaped field, west of the buildings, with a fairly
liable to be serious, but it is wise not to ramove heavy clay-loamsoil and a any. The afterbirth is attached to the womb by these colyledons. Where separation has taken
place the surface of the cotyledon will have a rough surface, while it will be smooth on those to which the membranes are still adherent. In rare cases aralittle gentle traction is sufficient to
cause separation, but in most cases they mus be carefully detached by manipulation with thumb and finger of each individual cotyledon. As a
portion of the membranes is detached it shoul be drawn out and held by the other hand. The operator should be careful to keep arms and hands well onger of infection, as if he have any vent asy danger of infection, as if he have any fective matter entering. Care should be taken
to remove all the membranes, after which a little to remove all the membranes, after which a little more of the
into the womb.
In mostly all cases the removal of the after
birth in this way will be followed by a discharg and in some cases it is not possible a discharge parts of the womb and small portions of the membranes will remain, which will be discharged in pieces or corruption, and it is wise to admin oning. For this purpose probably nothing gives - as good results as carbolic acid given in 40 to 50 drop doses diluted with a pint of water, and given as a drench or sprinkled on the food thre

## GARDEN 1 ORCHARD.

How the Weldwood Orchard Was Planted.
Scarcely anything undertaken on a farm, eve to the building of a residence, should be more carefully thought out than the planting of an
orchard. Upon the choice of a site; the selec tion of varieties, the relative position of those varieties as planted, the spacing and the arrangement of rows, depends fifty to a hundred years of we planned very minutely the young orchard tions settled in planning that orchard will be, in many respects, the same as those confronting other planters, we can probably publish nothing orchard with a description of what was done and why.

SITE
First of all the site. This was an irregular
heavy clay-loamsoil and a gently rolling con-
tour, sloping generally to the south. The field is irregular because the road across the front of the farm runs northeast and southwest, while east and west. This gives one gore field on each side of the lane. We considered that such a gor would be less inconvenient in an orchard than In an ordinary field, especially with the rows as
we have thern arranced. The soil is heavier th but most of the farm is of the sam'e character A northeasterly aspect would be slightly preferred
to a southerly one, but no site suitable in o a southerly one, but no site suitable in climate the point is, perhaps, not so important as in some others. The fall for drainage is
good, and the orchand is very conveniently good,
located.

STANDARDS SPACED 40 FEET
Spacing of trees is very important. Notwith standing that modern ideas of pruning favor low growth, we still believe in allowing plenty room for top and root, when pdanting standard This is a latitude where trees are long-lived. is abundant, and where part of the area between the rows may he conveniently intercropped until the trees need it all. We had no hesitation, therefore, in deciding to space the standards
forty feet each way with fillers in the rows one way so that the orchard, at present, is planted
40 feet by 20 feet, but will eventually be 40 feet 40 feet by 20 feet, but will eventually be 40 feet
by 40 feet. An apple orchard should stand for a hundred years, and the production of a welllack of root-feeding and branching area.

Fillers
Whether to use fllers is generally quite a to yield. Amers are eariy-bearing trees planted coming into bearing, but should never be set out by a proprietor who has not sufficient resolution to cut down the filler when it commences to
crowd the standard unduly, even though it may are planted only in the rows one way, such crowding may be deferred for a time by systematic pruning designed to extend both filler direction of the wider spacing, contracting them NOWTH AND Various modes of arrangement have been cal-
culated to give each tree a maximum use of the total rooting and branching area, but these
are more or less open to the objection of incon are more or less open to the objection of incontage is somewhat problematical anyway. We therefore, concluded to plant the standards in
squares in rows running north and south with squares in rows running north and south with were several reasons for this decision. In the first place, we wished to plow through, siothe than across the forty-foot spaces, and a glance east and west there would be some furrows onl a rod or two long at the north angle of th orchard. In the second place we wished to run
a. row of tile through the centre of each 40 -foo space, and the best fall was towards the south A third reason was that spraying is usually done to best advantage when the rows of varieties
run north and south. A full half space for run north and south. A full half space for
turning was left all around the outside of the turning was left all around the outside of the angling fence made it irregular. A little more than a half space might be advisable at th fence along the south end is rebuilt. Trees planted close to the fence are generally left in the sod, and cause foring

PLOWED, MEASURED AND MAPPED OUT IN
DVANCE.

The field where this orcharid was to be planted wheat to the acre in the scorching season fall 1911, and the clover seeding, though nearly killed out by heat and drouth, revived with fall measured during a fair top. The field wa measured during a mild spell in December, staked out, and three rounds plowed where each row of drainage, and the ridges were top-dressed with manure during the winter. Each row was roughly charted on paper, the exact number o trees being marked, and precisely enough stock of each variety ordered to plant each row as
planned. Except for a deficiency of 23 Duchass fillers which will have to be planted this spring every row was planted exactly as laid out, and unless the nurseryman mislabeled some trees tree of some variety that does not belong there Precision in planning and ordering is important. varieties
And now for the very important matter of now on the farm, is one tree partly top-gralted to Kings and Snows, from which last year we trouble. Alongside are several trees of Mann apples and a certain handsome red apple tree equally heavily laden, the fruit of which will not one fruit is about as nutritious as another, but the great difference is in texture and flavor. People will pay for what they like, and as time
goes on demand becomes ever more discriminatgoes on demand becomes ever more discriminat-
ing. There is no use planting varieties that yield pith. Plant quality every time, having rogard, of course, to shipping and keeping quality as well as flavor, color and texture. The apple Spy. Fverybody wants it In the Northern Spy. Everybody wants it. In our demonstra-
tion orchard work, we found that we could sell locally about ten barrels of Spies for one of any other variety. The popularity of the Spy is
well deserved, and we believe it will endure. We planted more of it than any other kind, and would have planted a still larger proportion but for the desirability of having a succession of and picking, to pollinate the well-sterile Spy, and to produce a crop in those years when the Spy bears shyly, While specializing on Spies we
would insist on a fair proportion of other good would insist on a fair proportion of other good
kinds, such as Baldwins, as well. To insure thorough pollination, we took care to bave not more than two rows of Spies together. Reference to the illustration will show that we have on the extreme west a row of Spies then a a row of Baldwins, two more of Spies and a row of Greenings, two more of Spies and a row of Kings (which latter variety has a weak root growth, then a row of Spies and Domestic sorts, then a full row of Spies, and a row of McIntosh Reds, a row of Snows and another of McIntosh. stein, Spitzenburg, St. parent and Astrachan. We did have two Yellow The fillers but they were overtookd in the trench third Duchess, and one-third Wealthys, with three plums and four peach trees but no pears,
which latter were omitted because of their reputation for propagating twig blight in apple
orchards. The Wagener is a small growing tree orchards. The Wagener is a small growing tree,
which bears a high-quality, red, early-winter
truit. The Duchess has been a paying apple When handled as a tender fruit like the peach,
and shipped to the West in refrigeration. The Wealthy is a heavy-bearing, small-growing tree, with fruit of good quaility and color. McIntosh
Red and Snow or Fameuse are fancy dessert apples, but have a brief picking season, dropping
badly when ripe or nearly so. The McIntosh badly when ripe or nearly so To The McIntosh tree grows large, while the smoaller Snow tree is
tell addapted for alternating with rows of Mc-
Intosh
Intosh.
Now that our orchard is planted we are much
pleased with it, and there is nothing done that pleased with it, and there is nothing done that wo should wish to change. very number of important principles have been vely adies vantageously combined, and while lo-
caliner widy
dividual dividual problems of his overy, planter has in-
article may prows this article may prove suggestive to all

## POULTRY。

## Prof. Elford's Appointment.

 We are pleased to announce that Prof. F. C. arord is once more back in his element, which is professional poultry work, having been ap-pointed Dominion Poultry Husbandman in the Fxperimental Farms Branch of the Department of Agriculture, Ottawa, where his headquarters are to be. He is in charge of the poultry work not only on the Central Exxperimental Farm, but on all the Dominion Branch Experimental Farms throughout Canada. Previous to joining the
staf of Macdonald College, Prof. Etford was in charge of the Poultry Division of the Department
which he is now rejoining. He left the College which he is now rejoining. He left the College a yoar or so ago to accept a professional posihowever, he soon resigned to eatablish, a Cana-
dian agency for another incubator firm dian agency for another incubator firm
dita Rliford is popular, practical and persuasive in
public address.
A.
vast field
lies es before him and universal satisfaction will be expressed ait his anporstment. Mr. Mr. Gilbert, whore he suc-
coeds, and who has by hand and tongue and pen coeds, and who has by. hand and tongue and pen cone splendid practical service to the Canadian
poultry induastry during the yoars io relieved of responsibility, but is retained by the Minister at his last previous salary in an
advisory position. Mr. Giibert has well earned advisory position. Mr. Gilbert has well earned
a relaxation, but it is fortunate that his long years of experience are still retained in the Bervice of poultry husbandry.

## THE FARM BULLETIN.

Agriculture, Board of Trade and Education.
Belleville is, according to w. W. Anderson, of Prince Edward Co., one of the farmer members of this Board, the pioneer city in Ontario, in the matter of having representatives of the farming community on its Board of Trade
This step was taken in and consumer taicht be order thal the producer ter facilities of marketing produce result. Mr. Anderson was a delegate to the recent meeting the Associated Boards of Trade, held in London, Ontario. He operates a farm of 110 acres, just
three miles fromi Belleville, a city of 1,000 in-
habitants, this he consider an markets in Ontario He believes in mixed fora markets in Ontario. He believes in mixed farm-
ing, because, as he aptly puts it "you then have more than one string to your bow"-if one branch fails you have another upon which to rely.
Following out his ideas he has 27 acres of ofFollowing out his ideas he has 27 acres of or-
chard, keens about 10 good Holstein milk cows and resulting young stock, grows various crops
 bred Barred Plymouth Rock laying hens, on the
colony-house plan. colony-house plan.
of Pre is strong in his praises
of Prince Edwards' Department of Agriculture, A. P. McVannel, B.
A. . who is doing much in education leading to A., who is doing much in education leading to a
better agriculture. Mr. Anderson believes that our educational system requires remodelling if wo
 overome the trek cityward he recommends that
consolidated consolidated graded schools be established where
pupils could qualify for the unlversity and still pupils could qualify for the unlversity and still
remain in the country surrounded by home influences and wholessome conditions. He attributes ences and whosore enditinns. Ho nttributes
the decrease in rural population to the hildren
being sent to town or city to High School and being sent to town or city to High School and
Collegiate Institute at such an early age that Collegiate Institute at such an early age that
city ways impress themselves so upon their formative minds as o give them ever afterwards a
dislike for the country. Keep the child in the disisike for the country. Keep the child in the
dountry until he is old enough to appreciate its country until he is old enough to appreciate its
advantages and see the emptiness of the city, and ho believes he will never desert his country home

Knowing Things "Officially." By Peter Mcarthur
Tribune used to tell editor of the New York Tribune used to tell a good story about Horace Year's day, the assistant went to the office to get something he had forgoten, and found Greeley sitting with his feet on the box-stove reading the papers. A glance showed him that
the fire was out, and a look at the office therthe fire was outd and a look at the owice ther-
mometer revealed the fact that the temperature was dangerously close to zero.

A. G. Gilbert.

Retired from active work as manager of the Poultry Department of the Central Experimental Farm, after mepartment of the Central Experimental Farm, after
many yoars honable and eeficient service. Mr. Gil-
bert's services have been retained in an advisory capa"Why, Mr. Greeley." he exclaimed. "You must be almost frozen. There is no fire in th stove,
zero." The great editor got up, glanced at the stove and at the termometer, and then snarled in his
shrill piping voice: was "Confound you! why did you tell me ? I how cold it is I am freezing to death and I'll
have to go home."
artists to show a man going about his work on he looks at the thermometer. As soon as he sees that the thermometer is in the neighborhood of one hundred he promptly wilts. And we have
all known people to be going about their work all known people to be going about their work
complaining a little about not feeling well until they consulted a doctor. As soon as they found out "officially"" what was ailing them, they gave up at once and took to their beds. From gave instances it appears that there are two ways of
knowing things-knowing them privately knowing things-knowing ,them privately and was cold, but as long as he did not know
"officially" how cold it was he could stand it "officially", how cold it was he could stand it. it is the same with the man in the heat, and
the sick man. They can get along before they the sick man. They can,

Down in Ottawa the banking committee is trying to get some "official", information about banking conditions that will justify them in putting through or refusing
are asked for by the people.
There are doubtless members of that committee who know privately about all there is to be known about
business
conditions, but they can business
nothing
until then
they but they can do They are calling many witnesses to testify before the banking committee, and if these men give information with the necessary legal proof, that affairs to "official" knoweldge, something will have to be done. But it is no easy matter to make private knowledge "official." Everybody the State of Denmark," but until some respon sible Dane tells what he knows under exanimation and enables the examining court to pet evidone, even though everyonon, nothing can be investigation may know more than anyore dares o testify. You know the old fable about the mice that held a meeting and decided that they nust have a bell put on the cat so that they made useless by the fact that no one had the courage to bell the cat. The business men who have the knowledge that would enable us to tell our cat, are afraid to do anything for fear of
the powerful enemies they would make. And then there is the possibility that the members of to do if they got "official"" knowled know what they already know privately. They cannot afford to make enemies any more than any one else. Altogether it is a very interesting situation, but if the people continue to bring pressure possible that we shall get "official" knowledge of things that we already know privately, and orce a system of government inspection of the
banks. , affairs in the Unve been following the course of tion of what is likely to happen in Canada during the next few years. There has been a great deal of clamor against organized capital, and knew that a lot of things were wrong, but there was no "official" knowledge of wrong-doing. In the big magazines, Thomas w. Lawson, Lincoln scribed as "muckrakers," exposed the were derottenness of affairs, but nothing was done. It Finally the Pujo committee repeople to action. tions, and employed Samuel Tntermeyer tigashrewdest cross-examiner of the American bar, to By investicating dife out of reluctant witnesses. the aid of centralized capital that depended on monoplies, he was able to get "official" thew edge of the existence of a Money Trust. The ledge of the working of Americ "official"" knowledge of the working of American capital, and it
is said that President Wilson will send a
message to message to congress on the subject in a few weeks. But what interests me is that the a fujo
committe did not bring out a single foct not already known to everyone, through the writings of the "muckrakers." What the committee was able to do, by the aid of its lawyer,
was to make that knowledge "official," so that it can make that knowledge "official,"" so that
it committee employed a competent lawyer for the
purpose, a lot purpose, a lot of things that are now well-known would become "officially" known. It is also inwas not gained by examining "official" knowledge system, but by examining the captains of big
business. Aparently an investigation like that are not quite ready for but the time will come of the Pujo committee of Canadian editors told me some time sdrewdest he was able to forsee the problable course of affairs across the $i \mathrm{inc}$, and as he is of similar question in his powar to force a thorough ant doing all stime reading our future by the looks as if he wer

States. If he can force the same kind of inves tigation as they

Once upon a time, in a far country, a great Once upon a time, in a far country, a great
many sheep were being killed. Try as they many he guardians of the public safety could
would capture the destroyer of their flocks. not capture the destroyer of their fiocks. respectability, and he was arrested and dragged to court. But he stood on his dignity, and employed the fox to act as his lawyer. Though
it was shown that he was seen coming out of a it was shown that he was seen coming out of a seen him attack the sheep. To prove the innoen him of the watchdog the fox called a lot of
notnesses who testified that he was a strict
with witnesses who testified that he was a strict
vegetarian, and there was nothing left for the vegetarian, and there was no
Having learned a lesson from the trial, the watchto be seen eating cabbage and silage and other kinds of fodder. But every night another
sheep was killed, and the mystery became the sheep was killed, and the mystery became the
talk of the whole land. Everybody was sure that the watchdog was the guilty party especially as he kept getting fatter and fatter, but his
habit of eating vegetables in public, and the wiss habit of eating vegetables in public, and the wise
advice of the fox, made it impossible to fasten advice of the fox,
the crimes on him.
Now the prosecuting attorney of that country thinking the matter over he scratched his head and remarked
"I have noticed that more skunks are caught by coon-hunters than by anyone els
shall change my plan of campaign.'
A short time after this a man brought an
action for damages in the courts in which he claimed that a sheep had knocked him down and
bitten him when he was bitten him when he was crossing a pasture field,
and he called upon the watchdog to testify that and he called upon the watchdog to testify that
sheep are ferocious and dangerous animals watchdog wos glad to bave the chence to but as soon as he opened his mouth the judge and jury and everyone in the courtroom saw that eunning of the fox could not save him
Moral: If the banking conmlittee invertigated a fow morgers

A bill has recently been up before the Ontari wagons and ther vehicles win o wagons and nther vehicles having iron or stee
tires. For wagons of from: 2,000 to 4,000 tDs capacity, the minimum width proposed is three inches; with a enpacity of 4,500 to 6,000 ths.
$3_{4} \frac{1}{2}$ inches, and uver $6,000 \mathrm{tbs}$ and up to 10,000 and 5 -inch ines. Heavy carts shall have 4 -inch aill provides tires, according to capacity. That on and after January 1st.
bin 1916, no vehiele shall be sold, and on and after January 1 st., 1919, no vehicle shall be driven on
the public highway in Ontario which does conform to these rules. The bill has not yet
ceen passed. been passed.

The Tenth International Agricultural Congress is to be held at Ghent, in 1913. The Third Internamen will be held at Ghent, on the 13th, 14th, and conditions as the congress above mentioned The Second Internationgral Congress for Instrucon the 15th of June, 1913, to finish on the lifth. The Massey-Harris Company, of Toronto, has
bought out the Deyo-Macey Engine Company, of Binghampton, N. Y., which manufactures a com-
plete line of gasoline engines. This is the second American plant which has been secured

McKenzie's Molstein Sale
Wednesday, March 12 th , was surely a red letter day for Canadian breeders of Holstein cattle, did herd of John McKenzie, of Willowdale. The very satisfactory prices obtained, and the keen competitive bidding were unquestionable proof of the ever growing popularity of the Holstein cow, Particularly keen was the bidding for the daughters of the great bull, Sir Lyons Hengerveld Segis. The very favorable weather brought out a crowd business. The cattle were in prime condition and the auctioneer, J. H. Prentice was in his best form, and the sale was run off without a hitch. All toid, including six calves but a few
days old, forty-one sold for total of $\$ 6.780$. Seventeen of milking age
sold for $\$ 3,465$, an average of $\$ 203.82$, the highest price being $\$ 360$, nine of them selling yor $\$ 200$ and over. Six heifers rising two years of age sold for an average of $\$ 236.66$, th
highest price leing $\$ 295$, and five out of the, sisold for $\$ 200$ and over. Seven heifers rising one year of age sold for an average of $\$ 167.15$, the
highest price being $\$ 270$. Two helfer calves highest price bring $\$ 270$. Two heifer calves,
but a few days old, sold for $\$ 80$ and $\$ 105 \mathrm{re}$ spectively. Four bull calves a few days old sold for an average of $\$ 36.25$. Five young bulls sold
for an average of $\$ 79$. The principal purchasers were W. R. E!liott, Unionville; Sherrick Bros, Scarboro ; H. W. Duncan, Atwood and Gordon

## James Cowan's Shorthorn Sale.

Considering the bad weather which prevailed on March 6th, the attendance at the dispersion ale of Shorthorn cattle, the property of James Cowan, Seaforth, Ont., was very large, and the the well-cided success. Captain T. E. Robson, the well-known live-stock auctioneer, wielded the hammer, and the prices realized were watisfactory atle were in good breeding condition-just right o go ahead anil make money for the buyers, he proceeds or the sale, including horses, imple of the etc., amounted to $\$ 6,800$, and twenty-iou of the thirty-two head of Shorthorns, including
calves brought over $\$ 100$ each, or an average calves brought
over $\$ 129$ each.
The following is list of those selling for Celia 10th (imp.). David Miline, Ethel Celia 10th (imp.), David Milne, Ethel....... Celia 14th, Adam Dodds, Seaforth.......
Celia 12th, Joserh Dorrance, Seaforth. Celia 15th, lkobert Scott, Seaforth.... Celia 21st, Oliver Marshall, Elora
Celia 19th, John Daily, Seaforth.
Celia 19th, John Daily, Seaforth.
Celia 23rd, Fred Hunkin, Kirkton
Celia 26th, Oliver Marshall, Elora
Maggie 2nd, John N. Ratcliffe, Exter Maggie 3rd, W. J. Myhus, Chiselhurst Maggie 5th, F. W. Smith, Scotland
Maggie 7th, F. W. Smith, Scotland Lady Jane (imp.), E. H. Wise, Clinton. Maggie, John Hay, Seaforth.....................
Scottish Beauty brd, James H. Morrison
Scottish Beauty 4th, w. J. Beattie, Sea-
forth. (.......), W..................................
Rovalist (bull), W. Rovalist (bull), W. F. McLaren, Cromarty.
Roan Lady 40th, John Stephen, Bornholm. Roan Lady 41st, samuel Cudmor Roan Lady 43rd, Joseph Brewster, WinRosan Lady 48 th, Fred Hunkin, Kirkton
Roan Lady 46 th, John N. Ratcliffe, Exeter

Teeple's Holstein Sale Ideal weather conditions, a big and representative crowd of breeders interested in the great
lack and white dairy cattle, a high-class lot of cack and white dairy cattle, a high-class in first-class condition, spirited bidding and an auctioneer tuned to the occasion was the comTeeplen that made the big Holstein sale 11th a complete success Tock, True there were some bargains, but all through from the calves to the adults the average was a most satisfactory one. general uniformity of prices paid, but then the cattle showed a remarkable uniformity in type,
quality and producing ability. Nearly the entire quality and producing ability. Nearty to buyers from the immediate vicinity of lot went to buyers from the immediate vicinity oi
Woodstock, Owen Sound and Bradford, being the most distant points. Forty-seven head sold for a to.tal of $\$ 7,312$. Twenty-six females of milking age sold for $\$ 4,779.50$ an average o
$\$ 183.82$, the highest price being $\$ 250$. Eleven sold for $\$ 200$ and over. Five heifers rising two years of age made an average of $\$ 165,00$.
Seven heifers rising one year made an average of $\$ 106$, and two heiier calves sold for $\$ 70$ each. Three stock bulls sold for $\$ 590$, an average of $\$ 196.66$, the highest price being $\$ 300$ for Prince $\$ 275$, an average of $\$ 68: 75$, young bulls sold for ford, John Waldie, Stratiord and W. B. Toole. Salford, were the heaviest purchasers.
Rural Mail Facilities Increased
The advantages of the Canadian rural mall delivery system have recently been increased,
under a new regulation of the Post Office Pepart under a new regulation of the Post Office Depart
ment, which requires rural mail couriers to transact money order and postal note business fransact money order and pox-holders on their respective routes, and also to carry a supply of postage stamps
sufficient to meet the requirements of the patrons and to accept letters for registration from box holders, and give receipts therefor.
In this way the rural delivery system wil become a post office on wheels, and will add

much to the increasing conveniences of rural life. Patrons of rural delivery will be supplied with | blank applications for money orders and postal |
| :--- | notes, to be used as occasion arises. The together with the purehase money, to the courler who will give a reccipt therefor, and will purchase the money order or postal note at the distributing office, and deliver it to the box

holder on his next trip; or the courier may b ontrusted with the open letter in which to enclos time. In the case of registered letters for box holders, the postmaster of the distributing office registered article, and the box-holder will be re quired to give the courier an order on the post the box-holder will be expected to meet the courier on his next trip, and give a receipt on delivery of the article.
Registered letters on which the postage and registration fees have been fully paid, will be
accepted by the courier and receipt given thereaccep
for.

Readers of "The Farmer's Advocate" will re-
gret to learn of the death, from heart failure gret to learn of the death, from heart failure
last Sunday, of Geo. H. Pedlar, President of the
Pedlar Peoplo Pedlar People Limited, Sheet Metal Manufacturers, Oshawa. Ont. Over half a century ago Mr .
Pedlar commenced operations in a small way in the tin and sheet metal business at Oshawa, and in 1892 established the Pedlar Metal Roofing Co, reorganized into a joint stock company in
1911. The business has grown to immense proportions, with offices and large warehouses in portions, with offices and large warehouses in
Toronto, Montreal, Ottawa, London, Chatham, Winnipeg and Vancouver. The plant at Oshawa is said to be the largest concern of its kind un-
der the British

| Gossip. <br> J. E. Arnold, Grenville, Que., importer of Percheron, Shire, Belgian, Standardbred, and French Coach horses, in ordering a change in his advertisement, anmounces the new arrival, on March $12 t h$, of Putcherons, Belgians, and French Coalh stallions, 1 to 6 years old, Percheron mares, 1 to 9 years old, blacks and grays, including many prize winners and champions, most of the mares being sai. in foal. Grenville is a station on the Ilontreal - to - Ottawa branch of the C. : R., 57 miles from Montreal and | ONE HUNDRED HOLSTEINS AT AUC- TION. <br> The annual consignment sale of highclass registered Holstein cattle, under the auspices of the Belleville District Hol-stein-breeders' Society, is advertised in this issue to take place at Belleville, Ont., on Wednesday, April 2 nd , the offering comprising 100 head, including bulls, cows and heifers, contributed by seven breeders, and the dispersion of one entire herd of 20 head. The Belleville district is noted for its high-class Holsteins, and this sale wfers a fine opporstock in dairy lines. If interested, write For the catulogu", m"ationing "The Farm- | a dispersion sale of shorthorns. <br> David Milne, Maitland Bank Stock Farm, Ethel, Ont., a station on the Palmerston-and-Kincardine branch of the G. T. R., announces in our advertising columns that his entire herd of thirtysold by auction, without reserve, on March 28th. This herd is of more than thirty years' standing, and is richly Sod Campbell Bes sies, Rosebuds and Clarets, Marr Beauties and Rachels, imported, or from imsired by Broadhooks Prince (imp. $=55002=$, the heifers by Royal Blossom | Royal (imp.) $=68199=$, while the calves have been sired by broadhooks Model $=7975=$ Included in the sale lis a com- plete set of the Canadian Shorthorn $\begin{aligned} & \text { plete set of } \\ & \text { Herdbooks, } \\ & 1\end{aligned}$ to 28. <br> Elsewhere in this issue appears the ad vertisement of Max Stolpe, landgcape gardener, of 17 Main street east, Hamil ton. Ont. Mr. Btoipe is an px-superin- tendent of the Royal Gardening nustitute a gold and silver medalist, and during the past two years has become one of the foremost landscape gardeners in Can- |
| :---: | :---: | :---: | :---: |

## MARKETS.

## Toronto.

REVIBW of Last weer 's markits At West Toranto, on Monday. Karech
17th, rooelpte of Ilve stookk numbered

 ${ }^{39.15} 2 \mathrm{~L}$-. b. cars.
Rocosipe of live o stock at the City and
Jinien
stoot follows

The total reooipts at the two markots
or the ecrresponding week of 1912 were for the

The oombined receipts of Hive stock at
the twe yards for the past week, show an inerease of 1 carload, 390 cattle,
1,333 homa; but a decrease of 849 gheop. 1,338 hoegs; but a decrease of 849 sheopp,
t28 oalves, and 368 horses, in compari-
son with the corresponding weok of 1912. Reeopts of live stock were moderately largo, and quite suffcient to supply all The outside demand was fairly points. several bayors from Montreal and Hami,
ton, as woll as Northern Ontario, boing on the markot during the week. The in many weeks, as there was a fair supply of eattle that had beon preparod for the Fastor market. Trade was activo,
and prices highor for those of Easter quality, but for the lower grades pricess
were mot any better than at the elose of the provious week
the of erport weights, ransing catt,150 to 1,800 ligs., and some 1,400 lbs., and of export quality. good onough
 dividual cattle that sold at vory fow inand oun at re.so, but not more than Cor car lots was $\$ 7.85$.
Uuthers: '-Chetee seleeted lots of
oads of good to choice, 86.25 to 86.75 , medium, sood to ellole, 36.25 to \$8.50; medium, \$5 to $\$ 5.50$; inferier, $\mathbf{s i g h t}$ catmedum, $\$ 5$ to $\$ 5.50$; inferior, dight cat
tle, $\$ 4.50$ to $\$ 5$; cows, $\$ 3$ to $\$ 5.25$;
extra extra heavy, choice cows, $\$ 5.40$ to
$\$ 5.75$, and a few of Easter quality reached $\$$ e; canner cows, $\$ 2.50$ to $\$ 3$; bulls sold all the way from $\$ 3.75$ to $\$ 5.25$, and a fow extra heavy bulls, of
choice quallty, sold at $\$ 5.40$ to $\$ 5.75$. choice quality, sold at $\$ 5.40$ to $\$ 5.75$.
Stockers and Feeders.-Trade in stockers and foeders was. Iight. Stockers,
500 to 750 lbs. each, sold at $\$ 4.50$ to 500 to 750 lbs . each, sold at $\$ 4.50$ to
$\$ 5.25 ;$ feeders, 800 to 1,000 thb., sold at $\$ 5.30$ to $\$ 5.75$, and $\$ 6$ was paid for a few short-keep Peoders.
Milkers and Springers.-Trading in milkers and springers continues very quiet,
with prices little changed. The princiwith prices little changed. The princi-
pal demand centers on the better grades, most of the Pairly good to choice cows
selling at $\$ 55$ to $\$ 65$, and choice to selling at $\$ 55$ to $\$ 85$, and choice to
extra, from $\$ 70$ to $\$ 85$, though very few
eeach $\$ 80$ Veal Calves.-Recoipts of veal calves
continue light, the supply not heins continue light, the supply not being
equal to the demand. foood to choice
vealery equal to the demand. Good to choic
vealers sold at from. $\$ 9.50$ to $\$ 10$ per
cwt.: fair to good. light calves, $\$ 8.7$ cwt.; fair to good. light calves, $\$ 8.7$
to $\$ 9$ strong - weight calves, $\$ 8.75$
$\$ 8.25$; inferior, rough, hicary calves,
$\$ 1$ to $\$ 5.50$, Sheep and Lambs.-Receipts of she and lambs were light, and, as a rule the quality was poor. Prices continue
very high, the highest ever known on th
Toronto markets. Sheop-Ewes sold trom $\$ 8.75$ to $\$ 7.40$ rams, $\$ 5.50$ to
$\$ 5.50$ Iambs, $\$ 9$ to $\$ 10.50$, the latter
$\$$ and (more than a dozen lambs, aloout 90

On Tuesday, John Beamish, a farmar
froma Woodridge, Ont., was on the mar
ket with
 $\$ 8.75$ por civ., or $\$ 14,50$ par head, o af thace of lambis. Comoldering the woight more than rood.
 all wook. Bolects , prices remalined And matered, mold
from $\$ 9.50$ to 80.70 .


 change, Union stoek-Jardi, continues
to be vory qulot. and for that matior,
we are informod by doelera, that is in





mixed, 93ntarlo, to Mo. a roll, white of
 traek, like perts. Oate-No. 2, SB. Ao



 - Ninoty - per-cent. wintor-whent Mour flour-Pricen 88 -rail shipm
winter-wiard. tents, $85.30 ;$ second patents, F4.80;
cotton,
in
$\qquad$ hay and millemer
Hay.-Balod, car lets, track, Toronto
$\$ 12$ to $\$ 18$ for No. 1: 811 to $\$ 11$.
 \$9 to $\$ 10$ per tol.
tom: ghorts. $\$ 21.50$; Ontario bram, $\$ 19$ to \$80, In bags; shorts. \$11.so, ear lots, traci,
TORONTO serim Manicler. Alaike No. 1, Per bumbel, $\$ 11.50$ to S19.50, alsike No. 2. Der buathol, \$10.Be to 810; rel-elever seod, Ontario-grown,
\$7 to $\$$ por busitol; timethy No. 1, per
buaki, 81.90 to
 per builhol. 81.93 to 81.60 .
to farmors for soed that has to bo ro COUNTRY PRODUCI
Bupplies. - The market romanins etoady, mand. Creamery pound rolle, sae. to rac.; croamory solids, 28e. to 29e.; sepa
rator dairy, 28e. to 80c.; ntore lots. 22c. to 24c.
Eggs. - Receipts were 11 boral , and pricas
ensior. New-laid, 28c. to 24e.; colddomed Changese, -Market firm, but pricos un-
change. at 14 c . for largo, and 15 e . fo Honey.-Extracted, 12luc.; combs, $\$ 2.75$ Potatoes. -The market remains easy. On
tario potatoes, car tario potatoos, car lots, track, Toronto,
65c. per bag, and Now Brunswlck pota-
toos, in car lots, track, Toronto, 80c, Poultry,-Receipts light, and not equal
to demand. Turkers,
 20c. to 22c. per 1b.; chickens, 22c. to
23c. per 1b.; hens, 16c. to 18c. per lb.
Beans.- Broken car \$2.60; primes. $\$ 2.25$, down to $\$ 125$ per
hushel for inforior
hides and skins
1 inspected steers and cows, 13 c .
2 inspected steera and cows,

Fruits and vegetables Apples-No. 1 Spien, per barrol,
No. 2 Spies, $\$ 8$ to $\$ 3.50$; Greenings, N No. ${ }^{2}$ Spies, 88 to $\$ 3.50$; Greenings, N
1, 83 to $\$ 3.25$; Greeninga, No. 2, $\$ 2$ $\$ 2.75$ per barrel; Kinga, No. 1, por bar-
rol, $\$ 3$ to $\$ 8.50$; cabbago, por barrel, rol, $\$ 3$ to $\$ 8.50$; cabbago, por barrel,
\$1; onions, Canadian, 7 Fce . to $\$ 1$ par 81; onlons,
nilp


## Montreal

 seose, 14 c. to 1 ce .;Drewl, 15 e . to 18 c , good demand, and sales hogs were
took place dressed, and at 13 ze. for country-dressed light weights, and at 12 lc c. for heavies.
Putatoes. -The market for potatoes was Putatoes. - The market for potatoes
about steady, although there seemed have been some shading in prices, and
it was claimed that Green Mountains were available in car lots, track, at 70 c .
per 90 lbs., while Quebes stock was still por 90 lbs., while Quebee stock was still
quoted at boc. to 65e.
Smaller
otots
Egga.-There is little 11 keliheod of an adranee at this time of year, over pres-
ent priee. white the coming of Easter
will will ilkoly told price sairly firm. Que-
tations wore 28 . 10 30c. for frosh. tations wore 28 e. 10 30c. for frosh.
syrup and Houey - Cld ss rup was quotat 7 e . to 9 .c. por 1 b . n wood, ting
boing 9e. to 10 Ce . Whin boney was 18 Bc . to 170 .., ancu dark, 14 c
ho
to $15, \mathrm{c}$ - 15yse; white extracted, 11 fe . to 12 c
and dark, 8 c . to 9 c . Butter.-Considerable interest. was man)losted in this market, this being a
critical period of the yoar. Prices held bout ateady, at 29 e . to 80 c . for finest, in a wholesale
Grain.-There was atill some dealing orn, and salos have boen made here
80 e., ox store, for No. 3 yellow showed ilttle change, selling around 41 er bushel for No. 2 Canadian Westeri tore, and 40 c. for No. 1 foed.
Flour. There was no great demand for flour of any kind, and prices were standy,
at 85.40 per barrel for arst patents, in at $\$ 5.40$ per barrel for first patents, in
bags, and $\$ 4.90$ for seconds, strons bakers betng $\$ 4.70$ Ontario winte
wheat patent flour was $\$ 5.25$ per barr While
$\$ 4.90$. $\$ 4.90$. in meed-There wall a very fair demand
or milleed. Prices showed little change, being $\$ 20$ por ton for bran, and
$\$ 22$ for shorts, whill middlings were \$25. Pure grain mouille sold at $\$ 35$
to $\$ 36$ per ton, and mixed at $\$ 30$ $\underset{\text { \$33. }}{\text { Has }}$

## Hay.- The market for hay whs report d to be lower, owing to

 demand from the United King lom, anda consequence prices wern down an a consequence prices were down to
$\$ 13$ to $\$ 13.50$ per ton for No. 1 hay:
$\$ 11$ to $\$ 12$ for No. 2 extro. 8 .
$\qquad$
$\qquad$
red clover has arrived-75 por cont. of to $\$ 10$ per bushel of on wor Abs. Alsiko
was quoted at $\$ 10$ to $\$ 12$ por bushel. was quoted at $\$ 10$ to 812 por bushel. Hides.-Spring lambs wore coming it
and dealers quoted 10c. oacle for their and dealers quoted 10. ©ack for their
skins. Shoep. sktn wore $\$ 1$ to $\$ 1.10$
each. while horso hides $\$ 2.50$ each, according to quallity. Beet hidos mold at 12 c ., 18 c . and 14 cc . per lb or No., 8, 2 and 1 hidos, and anlf akins
at 15e. and 17 c . per lb. for Nos. 2 and


## Buffalo.


 to $\$ 7.50$; bulle, $\$ 5$ te $\$ 7.95$; stoekers and
loodore, $\$ 4.75$ to $\$ 7$; stockk helfors, $\$ 4.25$ to \$4.50; frosh cows and springers, \$3 Veals. -85 to 812.50

 \$6.50 to $\$ 7.50$; dairiea, 87.85 to 88.60 . Shoep and LLambs., Lambe, 80.80 .

## Chicago

 sterrs, 86.25 t t. 87.50 ; otoakors and feed
ers, 86 co 88.20 ; cows and hoiliops, $\$ 8.50$ to $\$ 8$; calvos, $\$ 7.50$ to , 818.10 . mixed
 \$8.95.
Sheep and Larabs.-Native. Be. 15 to $\$ 7$; yearlings, $\$ 7.20$ to
native, $\$ 8$ to 89.

British Cattle Market John Rogers \& Ce. Cable that Iribl
steers are making from 14. to 15ife. per
pound

Questions and Answers. Miscellaneous.

Threatening Letters.
Minsed by a yourg lady of 11, was amwas continually bothoring Min Mr. would not allow hor to apoal io any other man. Misu $\Delta$ loft and oame to Canada. Mr. I is now writing threatoning letters, tolling hor to come back, also sets a date, and alloot hor. He also sets a date, and says he will sone passage-money for that date, and it sho 1. Should she eome ou
2. Could he be stopped from ooming ? come, beulore he be arrostod a he did 4. Would there be any use in notify5. Who should be notiad?
cares What would you advíe o Miss $A$
nothing for Mr. B; and, besides Mr. B is a married man, and hal a wif
and family an old subscriber
2. Probably, yes

5 and B. See the Crown Attorney of county in which you reside, and
and him the letters. Ho would prob-
bly communicato with Ho mole ablic Prosecutions, or other proper dian Imprity, in England, or with the Cana-
Imatation Officers; or take such other steps as might soem to him ad-
visable and necessary for miss A's prointion. In writing her the threatening
itters, B has committod a criminal dinely. Note-A fee of one dollar was en-
losed with this letter, thus entitling the
nquirer to an answer by mail, but no


Easter Day.
sor. Robort Melintyre,
-. the dewn of Eantor morning! o, the
men througt the laughing Mlies loving
To the placo where Ho
Uneon bolede the tomb buried, to
Where the oodar and the willow treo
And the wrting and the almond both

When atho saw the gracious angel sitting on the guarded stome,
When ehe heard him softly say,
Lo ! your Master is not dead. He in
 oad, ewoot day !
o, the cawn of Faster
When Joove eorquered Death alone, and
that oncoe all hie sway. callag all the
List I bow Magdatone is calliag all the
Where wine molde the mingled casela, the
baloam, and the myrrh,
And stamad, with game emraptured, by the
And staman. with gam empapturea, by the
See the enowy linem folded, which He
novor more will nood,
Fear the happy woman telling that th Lord is rison indood.
Now the phouting Ohristian may Death. Where 18 thy ating?
In the down of Eastor morning, o, the the dawn of haste;
sad, ownot day

- the dawn of Fastor morning 1 O, the When we wore all dolivered from dominbon of the olay;
Within that burial gardon how the heart Growe ealm, of oypress changes into Low the wraneh of palum, How the walling roquio
 Oemide got contain, Gomes baek to be a oomrade with His own oloct again:
In the duaky sumiee gray, Looks and duaky sumriee gray, oalling Mary by hor name,
In the dawn of Eastor morning, o, the sad. awoet day 1 ©. the dawn of Easter morning : O, tre sad. swoet day!
When the rearrection glory on the urn . Let doth play.
Let not your heart be troubled, your place I will prepare;
Henceforward all my blessedness my Bride will surely share,
And she whall be beside me now, whero. Saviour, there is nothing in Thy happy heaven above
Which we desire a portion in, so much Ott hast Thou heard us pray,
Eloi ! when all the race is run, welcome Eloi : when all the race is run, welcome In the dath thy of "well done,"
saster morning, o, the
sweet day! ---Zion's Herald.
Eggs and Their Symbolism la paper given at the Teeswater branch
of the Women's Institute, by Mrs. F. P. My subject is a rather prosaic one My subject is a rather prosaic one,
not much chance for "frills". or imaginary soaring, - and for that very reason
all the more diffcult to treat entertainall more diffcult to treat entertain-
ingly. I am not even giving you any
aew cooking recipes, for they are to be
in abundance chewhere.
gathered some facts here and there which trust may prove interesting The egg is one of the few things in Though some specimens are round, and some oblong, the usual shape cannot he
decided by words applicable to other objects. The size of the egg has long been a standard of measure, and its
specific gravity a test for solutions. specific gravity a test for solutions.
The first watches were egg-shaped, and from their origin in that city were called Nuremburg animated eggs. The nine thousand varieties of known
birds, furnish every birds. furnish every shade of color in egge Thir protection. Airds of nase nests ar
thenre
covered covered lay white eggs, while in open ored like surrounding objects. Eggs


An Easter Lily
some sea-birds are coverei with a glu- Different countries have egg game tinous sulstance to prevent their slipping Even the Americans have a custom There are many mytns and supersti- $\begin{aligned} & \text { rouse, Washington, at Easter-time. }\end{aligned}$ There are many inyt The Jews found The egg industry, is one of considerable
tions regarding eggs Thent in recent years, and Madame in them a symbol of bondage and won- moment in recent years, and Madame
derful deliverance. and used them as a Hen is a personage of much importance derful deliverance. and used them as a the
type of their departure from Egypt, and these days; indeed, could she know her they appeared on the Passover table. value, she would probably-after the man-
thedern Jews still use them at their ner of a certain other small - headed
Moder Passover Feast as an emblem of the member of the feathered tribe-strut. rolling fate of Israel. The peculiar (iail Hamilton remarked: "The rela-
shape shape of the dome of the Mohammedan pestion of the pure eggs, and the relation of those eggs mosque is regafuc
early egy, worshipe.
Eygs. and especially their shells, have cents which they castards. and the 25
have for asking,
been thought potent aids in witchcrapt
lrish and French nurses ehildren to push their spoon through the shell after pating contents, "to keep the witches from making a boat of it." Eggo laid on holy days were supposed to possess helpful qualitios against al
ills.
Scotch
Ishermen used unluoky to have eggs on board their
boats, as "they would bring contrery boats, as
winds.." 'they would bring contrary An English superstition is: "If eggs leave the house after dark they will bring ill-luck." Eggs ifgure very prominently in Easter tian lands, they are symbolical of Resurrection. In France, hens ${ }^{\circ}$ nest
were formerly ransacked for the largest oge formerly an Easter tribute to the king.
make oven an ungainly hen like mang heroines in novels. not beautiful, but hy teresting.'" Many people who have kopt
hens for halk a lifo-timo. oould clail
kindred spirit in the writer of the lines : indred spirit in the writer of the tineo - Well. drat them hens I when egge th They lay the hull place ankle cloop: Just keeps me lame a-dteophin round
A-pickin' eggs up oil the ground. But drat them hens ! when oure is dear They sit around for hall a yehi
Eatin' my wallet to its marrow. With no more conselemoe than a sparro Indulgin in a conversation
On every subjec' since Oroation,
Exceptin' 'oggs an' how to lay ', Exceptin' 'eggs an' how to lay 'om,'
Makes me so mad I want to slay 'om. There doess seem to bo a porversity
about hens sometimes which could at There does seem to bo a porversity
about hens sometimes whie oould at
most be thought diabolieal, but if the most be thought diabolienl, but it the
matter was sifted, it weule probably be matter was sifted, it woule probably be
found that haphaaard mothode obtali ro found that haphaeard gerding their food and genoral caro,-bui 'that is another story, my subjoet to day being "EDifots," not "Okuese Eggs are espoctally rich in pròtelin which is the nitrogenowe or mineral salt ingredient of lood. This matorial is rotissues of the body. fome omergy io also furrished by protein, but tate and carbohydrates (or starok and sugar)
supply the greater amount needed. When egge, meat, fish, cheese, and similar toode. rith in pro-
tein, are eaten, such other bread, butter, potatoes, oto., aro served at the same time, the obloct bolng, evon if the fact is not realised, to comble
the different clagees of mutrionts ilito suitable diet
The custom of aneiont Iantorn ahepherds, was to plage raw oge in a sling, then whir produced by the rapld motion cooked it. From thie primitive method, to the elaborate eoncootione of modern cooks (whe oven pertum of
flowers as flavors for omoloth, ott.), thero flowers as flavors is a great advanco. For many of theose variations we are indebted to oxport-
ments of French oooks, who, by ohainges ments of French cooks, who, by ehanges of sauces and soasoning, could darvo the
year.
Eggs
were once thought to pe hard to Possibly thin wais the rosult of
destare articles with which they wore comhe articles with whing Dr. Arbuthnot, Pope't friend, said: "Eggs are perhape the highest and the most indigestible." Exporiment of a later date prove, howevor, that an egg is digestec, potato, and quite as soon as beel
mutton.
One noted authority
(Joriasenne), discussing the digentibility of eggs, states that he regarde the yolk of raw, soft-boiled, and hard-boiled egge, at
equally digestible. The whito of softboiled, being semi-liquid, ofror. little more
resistance to the digestive juices than resistance to the digestive juices than
raw white. The white of hard-boiled raw white. The white of a hard-boiled
egg is not generally very thoroughly egg is not generally very thoroughi
masticated. Unless finely divided, It
Under offers more resistance to the digestive juices than the semi-fuid white, and un-
digested particles may remain in the digested particles may remain in digestive tract many days, and decompose. From this deduction, it is obvi
ous that thorough mastication is fm ous that thorough mastication is im-
portant. Artificial digestion experimente portant. Artificial digestion exporimenta
have been thade on the effect of bever ages on the degestibility of a number of foods, including raw and cooked egg-al
bumen, which led to the deduction that tea, coffee and cocoa, retarded somewhat the digestibility of the nitrogenous con
stituents of eggs, although the effect wa less marked with coffee than with the other beverages. Water did not have
this effect. Though interesting in them-
selves, too wide application should not
be made of these test results, for even
if the beverages mentioned retarded digestion somewhat, it does not necessarily
follow that the thoroughness was altered. tollow that the thoroughness was altered
The commonness of the egg makes it valuable as a medicine sometimes. raw egg, swallowed at once, will deten raw egg, swallowed at once, will detach
fishbone which has been lodged in the throat. Whites of eggs taken immediately after certain poisons, such as poisons, will render them harmless. French method of administering cod-live olir in castor oil is, first to warm it,
stir an egg, cook slighty, flavor with salt, sugar, or acid jelly. (I wonder if
the idea is the the idea is that by the time all this is
done you can cheat yourself into believone you can cheat yourself into believ-
ag it is some delicacy you are preparing, and soo take it under that impres-
sion.) The egg is considered valuable n typhus and typhoid fevers. vaken stomach and other organs, and by its soothing qualities reduces inflammation. is also recommend A well-known phy
Aves are lost by starvation, owing to an over-estimate of the nutritive value of is no good substitute for milk and eggs. An English physician adda this word: In cases of depression, whiere disordered working of the brain tends to exhaust milk and eggs made into liquid custards. Sixteen , eggs daily are given, with good
results.." Nothing
Nothing will sooner relieve a feeling of
axhaustion than a raw egg beaten in a class of millk sweetened and seasoned to the taste. Such a drink furnishes more ages, and without their evil effects. Many a tired woman would be better Por it. Eggs may also be served in tea,
coffee, lemonade, or hot broth, in the same fashlon.
The egg white being constipating in considered helpful in jaundice, latter is Considered helpful in jaundice, and simi-
lar diseases,, on account of the oill it contains, while the white ts beneficial in ailments opposite in nature
Physicians object to excessive beating be minigled in them, it may give rise to gas on the stomach, but if slightly
beaten, the solidity of the beaten, the solidity of the egg being
broken, the gastric juice can work upon it more freely. Either white or yolk
atone will digest alone will digest sooner than if taken
together. The object in beating eggs much in cooking is to incorporate air with them,
and this is lost if left standing after the beating process. Owing largely to the
high price of eggs, baking powders have ing a price of eggs, baking powders have
in a great measure superceded them, and ur food and stomachs have suffered in

Letters From Abroad on mediterranean shores - the Taormina, Sicily, Feb. 2nd, '13. Oh, Jean, how I wish you had been with us yesterday ! We had such an
uproarious time. I haven't laughed so
much much for ages. The occasion for the
outburst was the Catte Fair at Letooutburst was the Cattle Fair at Leto-
janni, -a little sea-coast village that anni, - little sea-coast village that
ooks/ about a stone's-throw from Taormina, but is really an hour's drive.
The day was heavenly The day was heavenly,-just the so
the guide-books describe when trying che guide-books describe when trying
catch tourists from the frigid North. We took back all the unkind things we
had said about Sicily during our first had said about Sicily during our first early in the morning in an ancient Sicilian bone-shaker that must have had
a B. C. date on it somewhere, but even the discomfort of being jammed into a dampen our spirits. We fairly bubbled with foy. As we zigzagged down the
mountain-side, every turn of the road gave us a ne
new picture. The villas we passed were brilliant with Gowers: the grar rocks olung the ron!-
way were tufted with gay natches emerald; the Mediterranean was dazzling
end
ent and white apphire, and Mt. Etna's white conc
gleamed like a mammoth prar! in the And remember. Jean, this was the
i, t of Fehruary ! I thought of thou
in the clutch of winter in Canada. with
a fur collar up to your ears. Our collar un to your ears.
On the way to the village, we met
numbers of peasants returning with their numbers of peasants returning with their
purchases, and we wondered why so many
of the men of the men carried rifles. We found out
later that they did it for self-protection, as many of thera have long distances to travel, and are apt to be attacked and robbed on their way home. Brigands
are still in existence in this country. Some of existence in this country.
extoups we passed looked exactly like the highly-colored prints of the "Flight ' into Egypt" in Uncle John's big Family Bible-the one that was alon the center-table in the narlor. Don't you remember how we used to gatoat over

The short street in the village was rowded with people. Down both sides it were temporary booths, filled with
vimcrack article dear every gimcrack article dear to the
Sicilian's heart-crockery, tin pans, baked beans, brgces, umbrellas, cheap jewelry,
etc. While we were standing in front While we were standing in front
of a doorway, a harmless-looking canvas of a doorway, a harmless-looking canvas
bag on the top step was suddenly seized with frightful convulsions, and began heaving and squirming in the most un-
accountable and reckless manner, displaying a a suicidal tendency to take a playing a suicidal tendency to take a
header down the steps. Several times it was rescued by a farmer's wife. who
seemed to regard it with a proprietary seemed to regard it with a proprietary
air. our wonder as to the cause of air. our wonder as the cause of
this strange behaviour on the part of an
innocent-looking hag was ended when we


The Cattle Fair.
Woman putting pig in pannier.
while Uncle John was snoozing away in his arm-chair What jolly times we
used to have at the old farm ! The nearer we got to the village the more lively and interesting the road became. It was a continuous sicilia road be It was a continuous
graph of alisurditian cinemato-
We aisled we graph of alsurdities. ITe wished we
had eyts all around our hends, so we wouldn't misa anything. hends, so we "LLook, look!"" cried Miss Morris ex passing. pointing to a donkey that was We looked-and what do you think we saw-and heard. A Alittle black pig in
a donkey's pannier, grunting disapprova donkey's pannier, grunting disaprover
ingly at the melliod of transportation. ingly at the method of transportation. that time on we went from one spasm


The Cattle Fair,
keys, tied together by the legs; pigs tages and high mountain peaks. But a
and kids and turkeys in panniers; cat. closer inspection proved them being carried by beige driven and dirty-looking lot. ubiquitous donkey plugging along hallasleep, quite indifferent as to the size or ve fassed consisted of a woman and balyy on the donkey; a kid in one pantor its, mother, who was bleating sadly donkey's htud leg, a mangy cur trotting rope and o man walking with a rifle on
application of
While Miss Morris Mon
Wis if it were some baskets, Mrs. Russell and I for around with our kodaks, chasing poke in panniers, and other comical things we The enclosed photo of a moman ting a protesting pig into a pannier put one of the results. The woman on the
other side of the dannier other side of the donkey has successfully
achieved the operation, and got her pig in. I tried hard to get a snap-shot of dear little long-eared kid hanging out a it pannier, but at the supreme moment the back of its head to the lens. Over and over again, the donkey boy turned its face to me, but it persistently refused
to be taken. Finally he plunged his to be taken. Finally he plunged his
hands into the depths of the pannier and dragged up-another kid. the pannier
at was
as surprising as a ledgerdemain as surprising as a ledgerdemain show
when the Great Wizard when the Great Wizard of the North
pulls rabbits out of his hat. sulting snap-shot, however, was not satisfactory, as the two kids got so inexlike an advertisement of print looks treak in a circus. I have rambled on so about the Cattle Fair that I haven't to tell you about it before the wanted faded from my mind. Arrivederci the Italians say for good-bye). LAURA. LA correction: Needless to say, the word "years," which appeared in the
first line oo last week's "Lotters,", in some of the papers, should have been
"days." "days." Laura, we are pleased to say,
was not in the doleful dumps for three
""ears."1

Hope's Quiet Hour
Clear, Shining after Rain
He an easter message
He shall be as the light of the morn ing, when the sun riset
A morning without clouds
When the tender grass springeth out the earth.
Through clear shining after rall.

When Job was crushed and bewildered hy sudden and unexpected sorrow, one of ing: "Man is born unto trouble bay the sparks fly upward." It is not in the least consoling to hear that trouble is the common lot of all mead though it is
inspiring to hear how others have been victors in the midst of pain. Only a coward would desire to live out h1s life on earth without any pain or difficulty
No soldier worthy of the name wants to loaf about in a barrack-room, while his comrades are facing the enemay or bravely enduring hardships on active sorvice. Temanite, who came to mourn with his afflicted friend, only tell half the truth The Psalmist had a more complete vision
of man's destiny when he ing may endure for he said: "Weepcometh in the morning. . . . Thou hast turned for me my mourning into danc-
Ing: Thou hast put off my sack-cloth.
and pirded hat and girded me with gladness.
Even Job, who suffered so Sut into the clear shining atter rain; for
"the LORD blessed the latter end more than his beginning."
Ciod's way of reckoning time-which still the Jewish custom-is to make each "The evening and the morning were the finished until the morning jou has come. As Ella Wheeler Wilcox reminds us :-
Nothing is ever setuled until it is setled ripht." hour carth first Good Friday-that darkest
call cer known, which yet we niteny despairing. They had set were to have failed them unterly and he seemed Wart of (Gonif who shall be teatered a serhail in a sure place, and on him shall liang at vessels of his father's house, from the vessels of cups even to all the
viscels of flagons. On his shoulder shatl

Rev. Hii.: 7) claims to be this promised
Ruler. But, if you read carefully th Ruler. But, if you read carefully the
aocount of Eliakim's life, as given by Iacount or will think that it ended in
Isatribl you wister. The nail, on which all
terrible disaster terrible disaster. The nafl, on which all
the glory of his father's house hangs, the glory of his father's house hangs,
shall '"be removed, and be cut down, and shall "be removed, and be cut down, and
flall, and the burden that was upon it
shall be cut ofl." shall be cut off. Those words exactly fitted the awful
despair of Good Friday. To whom and despair of Good Friday. To whom could
the broken-hearted disciples turn ? They had found One perfectly holy Master, and had found One periectiy holy Master, and
When Ho had failed them-or so it ap-
peared-they knew that no one could ever peared-they knew that no one could ever
take His place. That was the evening. If we saw the sun go down for the first time, and did not think it could ever rise again, we should be hopeless, too
We know how short the night of We know how short the night of de-
spairing heaviness proved to be. Their spairing heaviness proved to be. Their
Master had told them He would rise again, He had given them the comforting assurance that joy would surely come
in the morning; but faith seemed to have in the morning; but faith seemed to have
no foundation of possibility to rest on, and their faith had as yet no wings. How could they trust and hope when dair ?
dan had set and all the world wa If you are ever inclined to be hopeless,
if you think that there is no possible it you think that there is no possible
way out of your present troubles, re member-

That Calvary and Easter Day,
Earth's happiest day and heaviest day,
Were but one day apart." Were but one day apart."
We can endure patiently, trust trit
umphantly, and hope gloriously, if we umphantly, and hope gloriously, if wn
are sure that the steadily-darkening are sure that the steadily-darkening
gloom of our sorrow is only like the
likne short darkness of evening-a darkness
that is leading swittly on to the joy that is leading swiftly on to
which cometh in the morning.

Who could wonder or misdoubt,
When God's great sunshine finds him
Do you realize the power of sunshine in keeping, our bodies healthy? A few minutes ago a trained nurse told me tha
almost any germ of disease would die it almost any germ or disease would die
exposed to direct rays of sunshine for twenty minutes. As sunshine is in the physical world, so joy is in the splritual
world. world. If you want to help the soul
of others, don't copy the friend of Job who talkod sadly about the inevitableness of trouble; but go eut, with joy in
your heart, and a radiant face, looking your heart, and a radiant face, looking
hopefully in every kind of storm for th hopefuly in every kind of storm for the
clear shiming of sunlight, which will mos clear shining of sunlight, which will most
certainly oome after the rain has done ts work.
Easter comes very early this year, but
-oven if the earth shows few signs of -ven if the earth shows lew signs of
life-we know that the tender grass will soon come springing joyoussly up, and
that the clear shining of the summer sun that the clear shining of the summer sun
will follow the neessary rains of early will follow the necessary rains of early
spring. We know that the dull and spring. We know that the dull and
stormy days will soon pass. that the
ice and ice and snow of winter will vanish in
the warmath of the sunshine. It is oxthe warmth of the sunshine. It is ex-
actly the same with our troubles. No matter how terrible and inexplicable they may soom at present, they certainly will
not last. Sorrow is transient, joy is not last. Sorrow is transient, joy is
eternal. Christ endured death for a very eternal. Christ endured death for a very
short "three days," but He is alive for
evermore One day last week I was talking to a
young girl in the hospital who had just young girl in the hospital who had
begun to walk again after a very serious operation.• She was very downhearted, having spent nearly all her money, and feeling much too weak to go out and
-earn more at present. I told her that earn more at present. 1 who called herselt "Another Country Woman," had sent four dollars to bring
sunshine to someone in darkness, and I sunshine to someone in darkness, and
thought God had intended it especially tor her. I am sure the kind giver would have felt well repaid if she could
have seen the clear shining after tears have seen the cloar shining after tears
in the eyes of that young girl. She in the eyes of that young girl. she
left the hospital yesterday, going out
with new ideals of a life of kindness and with new ideals of a life of kindness and
helpfliness, inspired by the kindness she has received from strangers during her
Wey is our birthright, and it is also
our wity. We dishonor our Master when we sorrow, as those who have no hope,
over Enything. Easter joy is not like over anything. Easter joy is not like
the foy of one who is untried in the ways
of surrow it is the joy of one who
has gone down into the depths and has
risen again; the joy of one who knows The Rouffdabotrt Cluh
[Study II. concluded.-'"The Greatest Movement in the World To-day." "]
The Regeneration of China It is a little more than a year since
the world at large awoke to the fact that a mighty movement was on foot in
China - a movement comparable with the French - a movement comparable with the
Revolution,
in
potentiality, though, happily, not in bloodshed. From a small beginning, the rebellion against ishing rapidity, over the whole of Chine proper. In a very few months the degenerate Manchu dynasty had come to
an end, and a Republic, modelled on that of the United States, had been established, with the great leader of the movement, Dr. Sun Yat Sen, as provisional President. But the formation of the
Chinese Republic was neither the beginChinese Republic was neither the begin-
ning nor the culmination of that great ning nor the culmination of that great
movement, which directly involves almost one-fifth of the human race, and which will eventually bring a new and powerful
factor into world politics. factor into world politics.
Answers to "country woman""
Mrs. P. T. Eastman, Gelert, Ont., say Mrs. P. T. Eastman, Gelert, Ont., say
she would be very grateful for any goo
that reading. One correspondent says tha


Dr. Frederick F. Freidmann.
[The German physician and scientist, who has discovered a serum for the cure
consumption. During the past fortnight he has treated scores of cases in Montreal, Ottawa, Toronto and London, before large audiences of doctors, nuirses, and prominent men. His discovery, if successful, as it promises to be, will
mark Dr. Friedmann as one of the greatest men of the contury. Copyright of mhoto secured from Underwood \&e Underwood, N. Y. 1
1f anyone has magazines to give away, For centuries, China remained prac and will write to Lillian Laurie, Free tically at a standstill. Torpid, sell-
Press, Winnipeg, she will supply the contained, and, to some extent, cultured names of mothers who are lonely, and she went her own narrow way, oblivious
have no means to get reading matter. to all that went on about her. Then have no means to get reading matter, to all that went on about her. Then
This correspondent alsu says: "I would the foreigner came and established his This correspondent also says: "I would the foreigner came and astablished his
love her to send some Farmer's Advo- trading posto on her coasts. The closed
隹 love her to send suet Hour has helped me door was forcen, and China became the
cates. as the Quiet
so much." Another correspondent sugg prey of robber nations. Her effeminate so much." Another correspondent sumt
gests that reading matter might be sent
to hospitals, or given to clergymen fo to hospitals, or given 10 clergymen fo
distribution among the sick and aged
Another si grests the sanatorium al distribution among the sanatorium at
Another sisgests also says that if they
Byrron, Ont.. and also s. Sounders, City Hall,
are sent to Mr. Saunt are sent to Mr. Saunders, City Hall,
London, he woll forward them to some
of the lonely construction and lumber
Hope. of the lonely construction and lum
HOPE,

camps. | of |
| :---: |
| camt |

new nation, a new power, whioh all peo(10's should respect.
Foremost among these was Dr. Sun
Yat Sen. For years he toiled hard and unnoticed, as he went from place to place, teaching the doctrine of freedom. At last his plans were mature, and then the Republic, which makes possible the complete regeneration of China. But it must not be supposed that the not to be expected that a whole nation ill, at once, leap from darkness into uled or that a people, for generations modern democracy. Yeat, with the peo cedent of Japan before us, we may conhanges expect sudden and marvellous And in oid China.
And who can gauge the possibilities of
this new Republic, when to its new Republic, when once it has some soil and mine, and, above ght, of men, it may well rival any country on the arth to-day, and become a new balanee
of power among the nations. Whether its power will be exerted for good or ill, for peace or war, is one of the monot
momentous questions for the future. momentous questions for the future.
However this may be, one thing is certain, China is awake, and can never again be regarded as a negligible factor

What is the greatest Move
MENT IN THE WORLD TO-DAY." MENT IN THE WORLD TO-DAY.

Why, the "Women's Movement," to be sure. The step that women are taking be, beside the men, as equals, and not inferiors. A movement that will be for
the good of all humanity in everything the good of all humanity in everything welfare of the race. As yet, this move ment is only in its infancy, but the ehild is strong and sturdy, aǹd will soon grow into the stature of a man or woman.
In the Christmas Number of "The Farmer's Advocate": a few years ago. this verse appeared :

## I hear the tread of pioneers. Ot nations yet to be, The first faint wash of waves, where

 Shall roll a human sea.'This was prophetic, as far as the West was concerned, and I feel that it will be the same with the women's movement.
In a sense, it is only, the frat faint "Wash" of the waves we hear, but the
billows are gathering in strength, and billows are gathering in strength, and
the surge of the same will soon be the surge of the same will soon be
breaking all along our shores; yes, and other shores. In fact, all the shores of the world. At the convention held last
tall in Toronto, Mr. Putnam said to the tall in Toronto, Mr. Putnam sald to the
members of the
Women's Institute, after members of the Women's Institute, arter "Now, see, and don't let it be a
'splash. " Why, however could the man
think it think it would be a pplash, atter being
with us all those years? No. our Institute is more ike a stone thrown on the water, from which the ripples spread,
and spread, and still continue to spread. When I first thought of the "Women's Movement," it was of the Institute I thought, witaits in wenty thousand mem.
bers in Ontario alone. At frest it wes only Provincial, but now it is for all Canada, and has gained a strong foot-
hold as far west as British Columbia. Then I thought of the National Council of Women all over the world, and all the other organizations that are affliated goodly proportions already. I am not taking into account militant sulfragettes, but quite, sane, sensible
people, who want to see everything done decently and in order, who don't want votes for prominence and display, but for the benefits they will bring to themselves and their families. That was.
grand article of Mrs. Dawson's, in the grand article of Mrs. Dawson's, in the
Christmas Number, "The Hand that Rocks the Crade." It is too true that many who are rocking cradles to-day do the know what they may be rocking
them, and who have no power to alter conditions or make them better than what they are; but all that will se changed in time-that, and many,
many other things-when the woman comes into her own. Agnes Knox Black said, three years ago, at the time of the International Congress (I think II

## Diamond Dyes Saved Her Suit

"I know you will be interested in my'experience with Diamond Dyes.
"Last fall I was in a serious dilemma. I had bought a light brown suit, which
 anything before I thought it would be well to test it with a smalh anyyhing before
piece of the cloth.
"This Little precaution saved my suit. The sample came
out of the dye so streaky that $I$ knew something must be wrong. out of this dyes es streacay hitan $I$ saved my something must be wronge
Fortunately just then a friend called to tell me that she had Fortunately yust then a friend called to tel me that she had
changed the color of her sweater suit-a white sweater ond a
 When It Iold her how unsuccesssfull I had been. she said she knew
what the difculty was and told me to ask for Diamond Dyes for
Wool.
977, "I went at once to another drug store and this time I ot a package of Black Diamond Dyes for Wool. To be absolutery
sure then 1 again tried a small sample first. The eresuts reassured me. and I found that the suitit could bo dyed perfectly. with the proper dyes. My suit looks as new and fr frial
when I boughtit and the color is far more becoming.

Hundreds of careful housewives have learned how to
Diamond Dyes help them to buy little luxuries that make Diamond Dyes help them
they could not otherwise afford.
When they see something they want especially, like a
and pretty new hat or a pair of smart dress shoes, they look over
their old dresses and wraps and they usually find that, by retheir old dresses and wraps and they usually find that, by re-
coloring one of them with Diamond Dyes and making it over, they can save enough to pay for the hat or the shoes or both, In this way they manage to dress beautifully and without making a real sacrifice at all.

| For, after you dye the material a new and fack fashionable |
| :---: | hade, it is as good as fresh, new goods right out of

odye it than to go around and shop for new goods.
With Diamond Dyes, it's so easy to give things a new color that you will want oires, curtains, feathers, etc., can be made as bright and fresh as new.
And each time you do this you save some money-money that you can use for
other things for yourself or the children, or with which you can buy some new piece other things for yourself or the children, of
of furniture that you have been wanting.

## Diamond Dyes

Buy a package of Diamond Dyes to-day. It will cost but 10 c at any drug directions on the envelope. Follow them and you need not ear to recolor your most expensive fabrics.

There are two classes of Diamond Dyes-one for Wool or Silk, the other for Cotton, Linen, or Mixed Goods. Dia-
mond Dyes for Wool or Silk come in blue envelopes. Diamond Dyes for Cotton, Linen, or Mixed Coods come in White envelope
Here's the Truth About Dyes for Home Use

Our experience of over thirty year
dye will successfully color
There are two classes of fabrics, animal veetable fibre fabrics.
Wool and silk are animal fibre fabrics, Cotton"and
linen are vegetable fibre fabrics. "Union" or "Mixed" goods are $60 \%$ to $80 \%$ Cotton-so must be treated as veg-
table fibre fabrics. etable
Vegetable fibres require one class of dye and animal
fibres another, and radically different class of dye. As proof fibres another, end radicilaly different class of dye. As proof swods aue one class of of dye, while manuracturers of woolen
goods ure an entirely different class of dye.turess of cotton

## Do Not Be Deceived

For these reasons we manufacture one class of Diamond Dyes for ooloring Colun. Linen, or Mixed Coodss and another class of Diamond Dyes for coloring WVol or Silk, so that you
may oblain the pery best results on EVERY fabric.
 Mixed Goods, use the Diamond Dyes manufactured especilly for Corton, Linen, or
Silk, use the Diamond Dyse manufactured eespeclally for Wool or Silk. Wool or Silk, use the Diamond Dyes manufactured especially for wool

1913 Diamond Dye Annual Sent Free This book is full of dress secrets. how to do almost magical things about the home. Send us your dealer's name and address-tell us whether or not he sells Dia-
mond Dyes. We will then send you this fannous book of helps, the Diamond Dye Annual, a copy of the Direction book, and 36 samples of Dyed Cloth-Fre

WELLS \& RICHARDSON COMPANY, LIMITED
200 Mountain Street
is the history of the world." : Well, that a lot to please us women, sometimes because they fear us; sometimes they might
fear an uncomfortable time if they did not do as we wished, and sometimes we
might ovan lead them to believe they are might even lead them to believe they are
doing as they wish themselves, when it has only ween suggested to them. Man has been supposed to be the head
long enough, but in very many instances woman has been the necik that turned the
head. Infuence has done a great deal. head. Infuence has done a great deal,
but the time is coming, yea, is now at our very doors, when we must have a change. Woman was put into the world
as an equal, and a helpmeet for as an equal, and a helpmeet for man.
She is a rational being, she can think and act for herself, and is doing it. Henee, this "Woinan's Movement." She hes been a long time in beginging, be cnuse man has been the stronger,
has kept her back, but the days strongth and brute force are gone, and
it is brains that count it is brains that count nowadays. The worlk that in by - gone days need by
strength, can now mostly be done by machinory, but brains are needed and, whereas, when machinery was in watches), it was clumsy and crude and bulky, but later on it was made smaller,
and neater, and more improved and neater, and more improved, and
more useful, so it was with man and woman. The big machine is not always the most capable of dofng the work, the little engine, in its own place,
can do as much as the big Mogul, and can do as much as the big Mogul, and
it is the little tug that draws the liner into port. I think I need not say any
more. The inference is more. The inference is complete. If
the brain of a woman weighs a the brain of a woman weighs a little
less than that of a man, as some auless than that of a man, as some au-
thorities say, its ability to work is just as great. The one was made to supple-
ment the other, and both are needed ment the other, and both are needed, plan that was first intended is still in complete. Mrey Co., Ont.
Grey CHANAN Grey Co., Ont
e to "Wester.
"Woster" neglected to send his address with his compotition letter. Will prize may be sent to him?

The Mending Basket
Does It Pay?
In reading ""The Farmer's Advocate,"
I noticed a plece headed, "Is Marriage I noticed a plece headed, "Is Marriage a
Failure?" and I wish to say that woman was a hero. Does it pay to be kind to your wife ? I say yes. I can say from
my own experience that I have only met one womain that did not respond to
kindness. I am not saylng that every kindness. I am not saying that every
woman can be made happy by her huswoman can be made happy by her hus-
band being kind to her, but the maiorlty would be happier by the man thinking for the comports of his wife, and the
wife for those of her hushand whie for those of her husband. I have
found that woman is naturally affectlonate, and naturaliy looks for her husband's love, and a few kind words, and to see that he is pleased with what she
trled to do for him. Yes, men, it pays trised to do for him. Yes, men, it pays
to bo kind to your wife, and mother, and sisters.
Parry Sound, Ont
Evidently A. S. would not agree wit the Italian of whom Thomas Augustine
Daly (the poet who is to the Italians of America as our Dr. Drummond was to
the ""habitant") speaks, in the following:
the wedding anniversary. Eef, mebbe so, you gotta wil
Dat's good as mine to ma You weell be glad for mak' her life So happy as can be.
Las' fall Carlotta tak' my han'
An' maka me so happy man ;
Wan yoar to day she ees my mato
$\mathrm{An}^{\prime}$ so to-night we celebrate
An so to-night we celebrate.
You theenk I would forgat da day
Dat pour sooch sunshine on my way
Dat pour sooch sunshine on my way
Ah! no, I gona lat her see How kinda husban' I can lie:
How glad I am she ees so true,
How proud for all da work she do.
On' bo for mak' her work for me
More easy dan eoch my heart, eess st
An'show how moch
I buy a leetla geeft for her.

Carlotta got so protta hair,
 Ees som'theeng mooch more use dan dat $\mathrm{An}^{\prime}$ stuff ${ }^{\prime}$. pad, so sof an thoock On. top da hair upon her hoad. So lilka leetla feathra bed. Eet sure weell mak' her feela rood W'en she ees carry loada wood
$\mathrm{An}^{\prime}$ mebbe so eet halp her, too
For carry more dan now, she do, So mooch weeth love my heart oes stir Eel, mebbee so, you gotta wile
Eef, mebbee so, you gotta wit
Dat's good as mine to me,
You, too, would try for make, her lite
So happy as can bo.

- T. A. Daly, in
"Madrigall.
The Insle Nook




Pauline Johnson. (TEKAHIONWAKE). Dear Ingle Nook Friende- - Wee it mot
so that a fow of you heard, last weak of that a few of you heard. lase weok, sense of positive pain? In a pecaha
sense she was ours.


The late Miss Paulinə Johnson.
than you or I was she-on her father ${ }^{\circ}$ Bide a princess, sprung frone the ab-
original triben of our contineant-yet, too was she connected our continent-yet, too British parentage, for her mother was the line, one of whose acions is the venerable William Dean Howells, the
veteran Veteran writer, last of that famous New and Thoreau, Whittier and Bryant, Lowel and Holmes, Hawthorne and Longfollow In another sense, too, is Pauline John ${ }^{\text {son }}$ peculiarly ours,-" "is," because those who have expressed their souls on the written page do not die: Canadian of Canadians was she, child of the will and love but the more as ie drifts ofl and off to make way for fields that sug-
gest the money god rather gest the monuy gud rather than Panand
the dryads. Listen to hor the dryads. Listen to her cry, and say
if you have never once felt as did she
in those in those sublime moments
Let ine but wander on the mihore night
stilled Drinking its darkness till my soul is The breathing of the salt sea on my My outstretched hands, but grasping - 'Let. me but feel the pulse of Nature's Athrob on mine; let seas and thunders 0 'er night and me: sands whirl ; winds Fur waters beat;


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 at tre maderen aikere, or in
 bend time whem machiner burak darm: and azinitit
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noad Natato The song wr phate shere




But conode top toraty rematir














 and






 Society of Author, ie Toronto, in 1891
In 1894 abe made her first visit io In 1894 ahe made her arst vistit to
England, where, as "the" talented In dian princoes, ohe made a great sensa-
tion, as did also her afst book, "White Wampum," published during that year.
Subseguent booke wera, Canadian Subsequaent books wert, "Canadian
Born" (1903), a collection, "Flint and Born" (1903),
Feather" (1912), and hor one prose
volume ""Legends of Vancouver, ". volume, "LLegends of Vancouver,"一the
last of the droamy, paseionate, Pandean



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 Grimins.

 and

natoon co., ont.











 How did you happen co minc ons
Questrovs re ranhons



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the ofrruated ides and botoom twice
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the handle one way of the stroke, the


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re papering.
Is light or dark paper most used in pariors and dining-rooms ? Are border
and drop-ceilings in tashion rooms? Where no border is used, and moulding put on at ceiling, is it the picture-moulding that is put on, or other
room moulding ? In a large bedroom, room moulding ?
would you advise a drop-ceiling of eight
or ten inches, and a nine-inch border, would you advise a drop-ceiling of eigh
or ten inches, and a nine-inch border, o
wide border at cailing wide border at ceiling (no moulding to
be used). Any other suggestions will be gratefully received. Hoping a reply will
int interest other readers, and thanking you
in advance.
SUBSCRIBER. in advance.
Wellington Co., Ont
The color of paper ueel whan The color of paper used must depend
upon personal taste and the lighting o
 put dark paper on a small, dark room; a large, bright room, will bear it bet-
ter-if one admires dark papers. borders are much liked when the wall are high, if plain, or very unobtrusively or harmoniously figured paper, is
used below: drop-ceilings are also used but in either case a narrow woode moulding is used as a finish, i. e., below
the border or drop. When the walls are not high, it is better to paper right to
the top, and finish there with ing. The moulding used is made for the purpose, and should be very plain,
stained to some wood color, or painted white. In $_{\text {n }}$ the bedroom, I should either have a. drop-ceiling or a border, not both, to stand such a division. Some beautiful papers in soft colorings
and dull finish are shown this spring and dull finish are shown this spring.
You can scarcely make $a$ mistake if you
位 avou can scarcely make a mistake if you
avornd, gaudy and large, startling pat-
terns, and keep to quiet, artistic colorings, chosen with regard to all the othe
colorings then colorings that are to appear in the
room (in carpets, curtains, otc.). Floral room (in carpets, curtains, otc.). Floral
patterns in dainty colorings are permis-
sible sible in bedrooms, but are not suitable Yor other rooms, where more dignty should
obtain. For these, choose plain or oatmeal papers, or, il chesign be liked, thore
with conventional patterns, in quiet, rich with conventional patterns, in quiet, $\begin{aligned} & \text {, ich } \\ & \text { shades. Browns, buffs, deep cream, and }\end{aligned}$ shades. Browns, buffs, deep cream, and
certain shades of green and fawn, are most in favor for leading tones.
Dear dining-room paper.
Dear Junia,--I have been an interested
reader of "The Farmer's Advocate" for over thirty years, and enjoy it very
much, especially the Ingle Nook I come to you this time to ask your opinion on papering a wall, which is now
painted a cream color-the ceiling cream painted a cream color-the ceiling cream,
with a very pretty border on ceiling-
and wall of green. Ceiling and border are still very pretty, but the wall is very
faded-looking. Would it look all vigy raded-looking. Would it look all righ
to paper the walls up as far as picture
moulding which is directly helo moulding, which is directly below th
painted border, and leave the ceilin painted border, and leave the ceiling
and border as they are, and what pat tern w
paper? The wood-work in this room has bee
painted white, but is turning yellow Would a coat of white enamel make
all right. white paint first, then the enamel? Thanking you in advance for any help
you will give me, I am, sincerely yours. We think it would hOUSEKEEPER paper to the moulding, leaving the paint ed border above, but without seeing th
character and shade of green character and shade of green of that
berder, we can scarcely advise you in
regard to the coloring ot the pir regard to the coloring of the paper tn
be used below. Why not think this out Por yourself? Would a pale, dull bunf
do? We imagine, however, that wat meal or quite plain paper would be better
than figured for the lower part of the wall; otherwise the eflect of the pret
border might be killed. Too much mat tern, especially if bold, and chosen " out regard to harmony of color, so cite
kills all effect of repose or dignity, safe. be repainte the wood-work which must kind of paint mused. will depend Follow thi. the
tions on the canc. are necessary, two of white paim, and
one of enamel.

IRON RUST-NUT CAIF

Ine Ingle Nook chats for some time, and would not know what to do without Could you please tell me how I can take ron-rust spots out of a white bedspread? Will send my favored recipe for nut cake. One cup white sugar, ${ }^{2}$ eggs
creamed, ${ }^{2}$ cups sweet mill, 4 eupa
fiour, 4 teaspoons hour, \& teaspoons bakige powdor, 1 cup
walnuts (chopped) 20 minutes.
Balke from 15 to 25 minGrey Co., Ont
"Iron-rust" $\begin{gathered}\text { spots are often hard to re- } \\ \text { move. } \\ \text { this }\end{gathered}$ mothod : Thicken emon juice with equal parts of salt and mixture to the cloth, and expose it to bright sunlight. If the first applicaation does not remove the spot, repeat If this does not remove the spots, apply disson ed salts of lemon after wetting the sots with water. Let remain until the clean water, and launder wash well wis
ladies' exchanges.
My dear Junia, -A friend wants me to
ask you if you would kindly publish your page of "The Farmer's Advocate" list of ladies' "Exchanges," preferably you do not have such a list she theought perhaps you would kindly publish her reply it. and perhaps somebody would supWe have not such Nova scotian. very glad to receive any information in regard to places where women's work sion. be exchanged or sold on commission. We understand there is one in
connection with the Y. W. C. A. Toront
cleading stove.
Dear Junia,-Would like to get at the paro quilt pattern. Dencribe the
colors needed and how much of each, Can you give any remedy to make the ave polisb stick to the stove? I clean s burned red. and before in-morrow
MRS. R. M.

Bear's paw quilt pattera appeared in th, 1913 . Some add a little sugar or alum to the polish to make it adhere. Scientific
American gives the following:
"Mix perts black lead, 4 parts copperas, and parts of bone black, with water, to lerm a creamy paste. This is an excel-jot-black enamel, causing the black lead adhere to the iron."

Rebecca of Sunnybrook Farm.
Se rial right asecured from Houghton, Mi@lo
Clover blossoms and sun
How d ye do, girlis?" sald Huldah Meserve, peeping in at the door. "Can you stop studying a minute and show me
your room? Say, I've just boen down to the store and bought me these gloves, this I was bound I wouldn't wear mittens this winter; they're simply too countri-
fied. 1 t 's your first year you're younger than I year here, so I and you don't mind, but I simply suffer if I don't keep up some kind of style. Soy,
your room is simply too cute your room is simply too cute for words!
I don't believe any of the others can bewhat compare with it.! I don't know What gives it that simply gorgeous look, Whether it's the full curtains, or that
elegant screen, or Rebecca's lamp. you certainly do have a faculty for fixing you. I like n pretty room, too, but I never have " minute to attend to mine; I'm
altways so busy on my clothes that half the iinac I din't get my bed made up till noon; and after all, having no callers ". Whrls, it don't make much differ -ay war parlor at home so it ill ben 4. ufter I take up lustre painting

THIS WASHER MUST PAY FOR ITSELF.

 をixim Fualdidid bu
 Hut




















 Addrese me personelly
R. D. MORRIS, Manager 1900 Washer Oo., BJR Yonge Sto, Toremto, Oan:

blemishes


 | Comple xtional |
| :---: |
| troube mas bean |










Hiscott Dermatological Institute,
College St., Toronto.
Est. 1892
A BUST AND HIS



 tom 1okto of tum with mubera ion









 lity tor tom


 was stepped on.'
"Perhaps I am a little mite conscious
of them, because they're not so very comfortable at first, till you get them broken in. Say, haven't you got a lot
of new things ? "Our Christmas presents, you mean," said Emma Jane. the rug from cousin
from Mrs. Cobb, the
 Saike tom Livan mad dak wo mave
 Radel


 takes the style off any room-specially
when it's not made up; though you have when it's not made up; though you have
an alcove, and it's the only one in the manai builings, foort seo how you

 Parre had to ge araid suidealy on ao
 mas onty, amo yibs haxal amed







 yaxwell to mo., atald Robocca boty. Axtoin to mo





 and








## MAYPOLE SOAP

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Maypole Sapp clams and dyeer at one operation, cotton, aill, wool, satin, vevveh, hace or featherr. Gives the treabest most billinint colorn becauise it contains soop. Colors are even, five from streaks, and abosolutly fast
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S always purchased by those who know its value.

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 siding in the Country to enjoy advantages as to lighting, the equal of those in the City
R. A. LISTER \& CO

CO., LIMI 197 Princess Street, wINNIPRG, ${ }_{82}$ Wreter Street, ST. JOHN, N.B.

com. It made me so emberressed I questions stralght." "You'll have to wear a makk pretty soon, if you're going to have any comSort, Huldah," said Rebocca. "Did he
oflor to lend you his claos-pin. oftor to lend you his class-pin, or has
it been so long since ho graduated that lit been so long since he graduated that
he's left off wearing it ? And toll us now whether the principal asked for lock of your hair to put in his watch?" ingly, but there were times could scarcely make up her mind Fuldab Rebecca was trying to be witty; or whe
ther she was jealous; but ahe oraerall ther she was jealous; but she semorally racided it was merely the natural in a girl who toling, attention.
"He wore no jewelry but an namoo cart-pin, and perfoctly gorgeous ring,and round his finger. run ! Whore has the hour dear, $I$ must the study boll $10^{\circ}$
Rebecca had pricked up har eare at
Huldah's upeoch. Sho remambered cortain strange ring, and it belonged to the only persoon in the world (anve Misa Maxwell), who appoalod to hor imagination, Mr. Aladdin. Hor fooling Cor him,
and that of Emma Jane, was a Mixturo of romantic and reverent admiration for the man himsolf, and the livoliest gratttude for his beautiful gifts. simoo they by without some remembrance for them both; remembrancos chosen with the rarest taste and forothought. Emman Jane
had seen him only twice, but he had had seen him only twice, but he had
called several times at the brick house, and Rebecca had learned to know him
better. It was better. It was she, too, Whe always
wrote the notes of acknowledgoment and wrote the notes of acknowledgomont and Jane's quite different prom her makn
Sometimes he Sometimes he had written frome Boaton
and asked her the nows of Rireroro and asked hor the nows of Riverboro,
and she had sent him pages of quaint and childlike gossip. Intoraporsed, on two occasions, with poetry, which to read
and roread with and reread, with infinite roliat. I
Huldah's atranger mhould be Mr. din, would he come to soe hor, amed could she and Emma Jane show him their
beautiful rooma beautiful room with so many of hie gifts.
in evidence? When the girla had ostablionol them-
selves in Wareham as rosl boarding pupils, it wareham as roal boarding as full of joy as it woll could hold.
This first winter and tranquilly happy of Rebecca'n seleool life, She wint Emilong to be lookod back upon. She and Emma Jane were room-mates,
and had put their modesi porsosilona together to make their surroundinge pretty and homellike. The room had, to bogin with, a cheerful red ingrain carpot, and
a set of maple furniture. As to the rest, Rebecca had furnishod tho tideas, and Emma Jane the materials and labors, a method of diviling responsibilition that
seemed to suit the circumst seemed to suit the circumstances admir-
ably. Mrs. Perkins's father had boen a storekeeper, and on his death had left
the goods of which has his goods of which he was possessed to
married daughter. The molesse his married daughter. The molasses,
vinegar, and
kerosene, had lasted the Ramily
attic
for
five years, and the Perkins attic was still a treasure-house of ging-
hams, cottons hams, cottons, and "Yankee notions."
So, at Rebecca's instigation, Mra
Ker So, at Rebecca's instigation, Mra. Per-
kins had made full curtains and lambre quins of unbleached muslin, which she
had trimmed had trimmed and looped back with
bands of Turkey-red cotton. two table covers to match, There were
to mach of the girls had her study corner. Robecca,
after much coaxing hat bring much coaxing, had been allowed to
over her preclous lamp, which aould have given a luxur lous air, which
apartment, and when Mr. Aladidin's last
cast Christmas presents wore added, the Jap-
anese screen for anese screen for Emraa Jane. and the
little shelf of English Poets for Rebecca, -they declared that it was all quite as housekeeping. The day of Huldah's call was Priday, fuw, Rebeccays, was free three to tall-past
ure to which a phe pleastire week. She she always forward the en-
snowy path through the pina down the De back of the seminary, and coming
out on a quiet village street, went directly to the large white house where
Miss Maxwell lived. The maid-ot-allher answered her knock; ehe took of
hall, pult her cape and hung them in the
was too obvious. With her gay plum-
Eo, hor "nods and becks and wreathed
miles," and her chearful cackle, Huldah smiles," and her cheerful cackle, Huldah
closely rosembled the parrot in Words worth's poom :-

## Areh, volatile, a sportive bird,

By social glee inspired;
Ambitious to be seen or heard,
And pleased to be admired !"
Mr. Morrison thinks the grammar be roturned, and
Huldah continued. "He me another,"
"Has rather suilppy about my leaving a bouk in the
hall. There was a perfectly elegant genhall. There was a perfectly elegant gen-
tleman in the office, a stranger to me. tleman in the office, a stranger to me
I wish he was $a$ new teacher, but there's no such luck. He was too young to be
the father of any of the girls, and too ome as a picture, and had on an awful tylish suit of clothes. He looked at
ne about every minute I was in the
White feather on it, and a white tiesue
veil with large black dote, made her delicate akim look brilliant.
thought mebecca thought how lovely the knot of red hair the color of the front had been dulled by inceseant frizzing with curling-irons souvenirs plined to the beckground bright blue, - mmall American flag, ${ }^{\text {and }}$,
button of the Wareham Rowing Club, and one or two socioty pins. These minch the name way as do the cotillio favora hanging on the . bodroom walls o
the fachionable belle. She had bee pinning and unplnning, arranging a
disarranging her voil over since she tored the room, in the hope that virls would ank hor whose ring she wa noticed the new ornament instantly. wild horses could mot have drawn the question from them; her desire to be asked


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Into the pookets of the users of The Peecless Way last yeer weat five million dollars made trom the poultry these people raised. Yot chickens are scarce in eannad
and egye are the scarcest of all food commodities. Thal mo poitively the fact.
To-day there are not enough Canadian CHICKENS or EGGS 20 go arouad. Thousands of chickens and
hundreds of thousands of dozens of eggs are being shipped hundrecd or thousands Of Uozens of eggs are being shipped

to halp meat the demand.
tremendous Yot there is a ahortage I Eggs are commanding a tremendous price-chickens ase
werth dollars. Now is the time to take advantage of this situation and make money out of it yourself You caa raiee and sell 600 chickens this next year, and you will fond a quick and sure market for every ene of them. You con
dozcons of abs that your poultry lay.
Let us tell you how I
Poultry raising is the beat business for any farmer, any farmer's wife or farmor s child. The poultry crop is the one crop that never fails. It pays better for the
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interesting; it is instructive, and it contains the proof.
You need thisting; it is instuctive, and it contains the pros free. A post card will bring it
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carefully in the corner, and then opened
the door of paradise. Miss Maxwell's

tit | itting-room was lined on both sides |
| :--- |
| with beok-shelves, and Rebecca was alt | lowed to sit before the fire and browse mong the books to her heart's delight or an hour or more. Then Miss Max-

well would come back from her class, and there would be a precious hall-hour of chat before Rebecca had to meet Emma Jane at the station and take the
train for Riverboro, where her Saturdays train Sor Riverboro, where her Saturdays
and Sundays were spent, and where she and Sundays were spent, and where she aminod, approved and reproved, warned
and advised in quite sufficient quantity and advised in quite sufficient qua
to last her the succeeding week.
On this Friday she buried her face in the blooming geraniums on Miss Maxwell's plant-stand, selected Romola from soat by the window with a sigh of inAnite content.- She glanced at the clock now and then, remembering the day on
which she had been immersed in David Copperfield that the Riverboro train had no place in her mind. The distracted Emma Jane had refused to leave with-
out her, and had run from the station out her, and had run from the suation
to look for her at Miss Maxwell's. Tont only to a place three and that
whiles the
other side of Riverbo other side of Riverboro. so that the two
girle appeared at their girI appeared at their respective homes
long after dark, having had a weary walle in the snow.
When she had read for half an hour,
she glanced out of the windo she glanced out of the window and saw
two agures issuing from the path through the woods. The knot of bright hair and the coquettish hat could belong to
but one person; and her companion, as the couple approached, proved to be none
other than Mr. Aladdin. Huldah lifting her mrirts daintily, and picking salf atopping-places for the high-heeled
shoes her cheeks shoes, her cheeks glowing, her eyees
sparkling under the black and white veil. Rebecca slipped from her post by the
vindow to. the rug before the bright fire Window to. the rug before the bright fire,
and leaned her head on the seat of the great oasy-chan her was frightened a
the storm in her heart; at the suddenness with which it had come on, as well as at the atrangeness of an entirely new
sensation. She felt all sensation. She felt all at once as if she
could not bear to give up her share of Mr. Aladdin' Priendship to Huldah: Huldah so bright, saucy, and protty; so gay and ready, and such good company !
She had alwny joyfully admitted Emma She had alwny Joyfully admitted Emma
Jane into the precious partnership, but perhaps unconsciously to herself she had
ralized that Emma Jane had nover held pealized that Emma Jane had nover held
anything but aecondery place in Mr. Aladdin's regerd; yet who wes she herself, after all, that she could hope to be sirst?
Sudd Suddenly the door opened softly and
somebody looked in, - Miss Maxwell told me I should And Miss Rebecca Randall here.
Rebecca
Rebecca started at the sound and sprang to her feel, waying you were in Wareham, and Lwas afraid you
have time to come and nee us.,
"Who is 'us'? The eunts are not here, are they ? Oh, you mean the rich
blacksmith's daughter, whose name I neyer remomber. Is she here?"
"Yes, and my moted
room-mate," answered Rebecca, who thought her own kneve of
doom had sounded, is he had forgotten Emme Jane's name. The light in the room grew solter, the
fire crackled cheorily, and they talked of many things, until the old sweet sense of friendliness and familiarity crept back
into Rebocca's heart. Adam had not into Rebeccas heart. Antam had not was much to be learned about school mattors as viowed from her own standpoint; $i n g$ her progress from Mr. Morrison. "ngoll, little Miss Rebecca," he sald, rousing himmole at length, "I must be thinking of my drive $\begin{aligned} & \text { is a meeting of railway directors there }\end{aligned}$ to-morrow, and I always take this opportunity of visiting the school and giv-
ing my valuable advice concerning its ing my valuable advice concerning
affaira, educational and financial." "It seems funny for you to be a school
trustee," said Rebecca contemplatively, "I can't seem to make it fit." "You are a remarkably young person, and I quite agree with you,"' he
answered; "'the fact is," he added soberly, "I accepted the trusteeship in mem-
ory of my poor little mother, whose last

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If you make your living out of the butter you sell, them anything that vill make the lumer better will make mone meney for yous.

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 yitume POULTRY

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HEADACHE
 CATARRH SN ETR

"That was a long time ago
"Let me see, I am thirty-two; only thirty-two, despite an occasional gray hair. My mother was married a month until I was ten; yes, it is a long way back to my mother's time here, though the school was fifteen or twenty years old then, I believe. Would
see my mother, Miss Rebecca?
The girl took the leather case gently
and opened it, to find an honest, and-white daisy of a face, so confiding, so sensitive, that it went straight to the heart. It made Rebecca feel old, experienced, and maternal. She longed on
the instant to comfort and strengthen such a tender young thing.
"Oh, what a sweet, sweet, flowery face !" she whispered softly. "The flower had to bear all sorts of ter weather of the world bent its slender stalk, bowed its head, and dragged it to the earth. I was only a child and could
do nothing to protect and nourish it and nothing to protect and nourish it,
and no one else to stand be$t$ ween it and trouble. Now I have success and money and power, all that
would have kept her alive and hapay and it is too late. She died for lack of love and care, nursing âd cherishing, and I can never forget it. All that has come to me seems now and then so
useless, 'since I cannot share it with her !'" becca's heart gave a throb of sympathy and comprehension. This explained the
tired look in his eyes, the look that peeped out now and then, under all his gay speech and laughter
"I'n so glad I know," she said, "and
so glad I could see her just as she was so glad I could see her just as she was
when she tied that white-muslin hat under her chin and saw her yellow curls and her sky-blue eyes in the glass.
Mustn't she have been happy! I wisb Mustn't she have been happy! I
she could have been kept so, and ha lived to see you grow up so, and had
good. My mother is always asd and busy, but once when she looked at and I heard her say, 'He makes up for everything.' That's what your mother would have thought about you if she had lived,
-perhaps she does as it is." "You are a comforting little person,
Rebecca," said Adam, rising from his chair. bling on her lashes, he looked at her suddenly as with now vision. brown hands in his, adding, as it he saw her for the first time, "Why, little Rose
Red-Snow-White is making way for a new girl! Burning the midnight oil and doing four years' work in three is
supposed to dull the supposed to dull the eye and blanch the
cheek, yet Rebecta's eyes are bright and she has a rosy color ! Her long braids are looped one on the other so that they make a black letter U behind, and they
are tied with grand bows at the top are tied with grand bows at the top I
She is so tall that she reaches almost to my shoulder. This will never do in
the world ! How will Mr. Aladdin get He doesn't like grown-up young ladies in long trains and wunderful fine clothes; they frighten and bore him !
eagerly, taking his jest quite seriously "I am not fifteen yot, and it will be three years before I'm a young lady;
please don't give me up until you "I won't : I promise you that,", said
Adam. "Rebecca," he continued, after a moment's pause, "who is that young
girl with a lot of pretty red hair and girl with a lot of pretty red hair and
very citified manners? She escorted me
down the tillt do mean?", hill; do you know whom I "It must be Huldah Meserve; she is and lamput a finger under' Rebecca's chin and looked into her eyes; eyes as soft,
as cloar, as unconscious, and childlike
 11e remembered the other she wair of chal-
lenging blue ones that had darted coWhitish tlances through half-dropped Writy lifted arrowy beams from under and said gravely,
brown't form yousself on her, Rebeccaj Nonsoms that grow in the fields they tre too sweet and fragrant and


The Beaver Circle
Our Junior Beavers.



Little Charlie Conn, Grey Co., Ont. Photo by Mrs. Buchanan, Ravenna, Ont. went out to work to chop wood. He generally came home at six o'clock, but
this evening he didn't come home till this evening he diòn't come home till
late. They waited till about eight late They waited till about eight
o'clock for him and he didn't come,
so they thought they had better get so they thought they had better get
their thea. They were siting around
the fire talking when there came a knock the fire talking when there came a knock
at the door, and in walked four men, carrying the deaa Dody of their father.
Little Ethel and Laura were very sad, Little Ethel and Laura were very sad,
and they cried very much. It was never and they cried very much. It was never
known how the man got killed, and it
will always remain a mystery. will always remain a mystery.
The tragic death of her husband brought
about the sudden illness and death of about the sudden illness and death o
the poor wife. The children felt thei sorrow very deeply, but they bore it bravely. There were only a few dollars
left to them, but they were very inleft to them, but they were very in
dustrious, and tried to be as saving a
dent to get the things they most needed, and often neighbors around would give her
vegtraoles and fruit. One day she went
out as usual and did not come baek. out as usual and did not come baek.
Poor Laura became very uneasy, and
sent messages to her neighbors to look BRAND
Dairy testing feed, calf meal, baby chick
feed, poultry mash, scratch feed and We can ship you car lots Brand" cotton seed meal, linseed oil cake meal, gluten feed, bran, shorts, oats, Write for our price list on oats, barley,
wheat wheat, peas, and buckwheat for seed. We
also handle all kinds of commercial If it's anything for fortilizerk or poultry, we CRAMPSEY \& KELLY, Dovercourt Road, Toronto, Ontari $\overline{\text { SEED OATS FOR SALE - Yellow Rustan }}$


Bren


A RIDGE OR A FURROW can both be cultivated at the same A RIDGE OR A FURROW can both be cultivated at the same
time and at the same depth with the PETER HAMILTON
EIASTIC CUITIVATOR ELASTIC CULTIVATOR, because more pressure can be applied to the Gang Sections of Teeth in the furrow, and less made in 3 jiffy, without loosening any nuts or bolts.
THETWHIFFLE TREES are attached in line with the sections. The draft is light, and there is no chafing of the horees' neclks, THE SECTIONS are made out of heavy extra stiff steel, and will not bend, and the teeth are reinforced with an exceptionally good helper, and will stand all kinds of rough usage.

For "RESULTS" buy a Peter Hamilton Cultivator. It means Dollars in your pocket.

The Peter Hamilton Co., Ltd. Peterborough, Ontario.
Sold by THE JOHN DEERE PLOW COMPANY DEALERS


Changed her into a bird. Away she fiew never resting till night set
We will now leave where we last saw Lsure and turn to Whore. At last she could not bear it
and.
any longer, so she detormined to sot out any longer, so she determinod to sot ou
and seek her sister. She packed up her and soek her sithe of clothes, and some food to last her a week, then set out with
the cat following cloeoly at hor hoels. She wandered on and oon till her food
became scarce, thon she had to eat the wild borrios that grew on bushes and traen. At last, tired and worn out and
faint with fatigue, the fell down unconscious. How long sho stayod there the acious. How long she stayod thare she
did not know, but whon the came to horwelf she was lying in a boautiful bed
in a king's palace. She had been pieked in a king' palace. She had boen pieked
up by the king's sen and brought to the pelace. She lived very happily there,
put atill mourned for her giater. Once, While she was sitting with a lot of other young poople, a little bird ald down
and alighted on the ground.
Prosently tt began to sing

- Maiden fair, maidem fair

Cut oft my head, eut of mand thare.
And see what comes of your avail."
Poor Laura folt very frizetomed, but ohe woat in and got a knifirand cut ad and bohold, there stood har long-lost sit-
tor Ethel. They wore very ploasod to Lor Ethel. They wore vory ploasod to
ooe eneh other again, and they wont in and told the king and queen. The king and queon wore very ploasod, and had a great foast spread in honor of Fthel.
Laura got married to the king's son and lived happily, while Ethol was too young to marry, so she lived with the king and quee till she became of a
they all lived happily together

Junior Beavers' Letter Box. Dear Puck and Beavers.-I thought I
would write a lotter to the Circle, as I have never written before. My ratho
takes "The Farmer's Advocate," and has taken it eight or nine yeara. I so to
school, and am in the Fourth Roador. We have eleven childrem in our school Our teacher's name is Miss Murray. Wo all like her very much. We have been
doing our test sheets, and have beon very busy. We had a concert last yoar; and we got thinge for the sehool-house. Bishop's Crossing, Yue., R. F. D. No. Dear Puck and Beavers,-As this is my it will escape the w.-p. b. I live on $a$ farm, and father has taken "The Farm-
er's Advocate" for two yeara, and he likes it fine. I enjoy reading the Beavers' lot-
 go to school. I shall have to clo
 Dear Puck and Beavers,--Papa tak The Farmer sivocate, and I like the
Beaver stories very much. I go to
school every day; I have a milo and a half to walk. I like the teacher very
much; her name is Miss Clarke. much; her name is miss Clarke. I hav
one sititer. My sister and I were in
Chicago last summer. We had a fine Chicago last summer. We had a fine
fimorence Jounson.
time.
(Age 9, Class II) Dear Puck and Beavers,-As this is
Saturday, I thought I Saturday, I thought I would write you
a letter. This is the third time I have entered your cozy corner. My papa has
taken "The Farmer's Advocate" ever since I can remember, and we all enjoy
reading it. I go to school every day,
and like it fine. Our teacher is Miss
Aird. we all And, we all line. Our her very mucher. is Miss
And and
in the Third Class at school: I tried for the Third last summer and passed. I I
think the story, "Rebecca of Sunnybrook Farm," is a good story. Forn Forto,
have a little white kitten; his name
Tommy . We aise Tommy. We also have a dog and a
little pup; he is a nice little telloo, and
is fond of play. Well, Puck, I suppose is fond of play. Well, Puck, I supposit
I will have to close now. Your lit in
friend,
BELLA MacLEOD Moose Creek,
povaria Col $^{2}$


 B ARRED ROCK egyo from well-barrod, heavy.

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 antalogue for aeting. J.W. Clart, Caineville, Ont. $\mathrm{E}^{\mathrm{GGS}} \mathrm{GO}$ FOR SALE. R. C. Rhode Iolane Redd


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 WHITE WYANDOTTRS, He vigorous, atay


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Balance of Ontario and Quebec, $\$ \$ 6$ cash
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KLINE MANJFACTURING CO., Limited - Beeton, Ont.

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(75\% Dried Malt, 25\% Pure Cane Molasses)
The wonderful results obtained by the large dairies and dairymen around Toronto by feeding our Pro-fat dairy feed haa led this company after many requests from dairymen to add 25 pounds of pure Cane Molasses to each 75 pounds of Pro-fat. The result being a molasses meal without an equal, as the following guaranteed analysis will show:-Protein 20\%, Fat 5\%, Fibre $13 \%$. Compare this with other molasses meale offered to the public and it will leave no doubt in your mind as to pany's Farm, Georgetown and other Dairy Centren, we have decided (in order to introduce this meal) to make the following proposition to Dairymen throughout the province:-

## 30 Days' Trial

We will ship on thirty days' trial, freight paid, one ton of Pro-fat Molasses Meal to any responsible dairyman in the Proviace of Ontario with an absolute guarantee (fed pound for pound in place of other meal or concentrates) to produce morer will be no chare for the meal. If it all we claim for it, the be no charge for the meal. If it is all we claim for it, the charge will be $\$ 1.40$ per hundred or $\$$. dairy herds have an opportunity here of trying a genuine molasses meal of real merit without running any risk whatever. It is the only molasses meal endorsed by the authorities of the O. A. College Guelph. Send your orders in or write to us for more particulars if you have any doubt about this offer. This meal is equally good for horses, no dairyman can afford to be without it. Write for list of dairymen who have already used it.

## Feed Pro-lat Molasses Meal and Watch the Milk Flow Increase

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The"Shorthorn Herd of the Maitland Bank Stock Farm being one of the oldest Shorthorn Herds of milking strains in Western Ontario consisting of Bulls, Cows and Young Heifers, 32 head from the following families, viz.:
Campbell Bessie; Campbell Rose Buds; Campbell Clarets; Mar's Beauties and Mar Rachels will be sold by Public Auction on
FRIDAY, MARCH 28th, 1913 Commencing at $120^{\circ}$ clock noon
TERMS : All sums under $\$ 10$ cash, over that amount nine month'。
credit on approved Joint Notes; Five per cent. off for cash. credit on approved Joint Notes; Five per cent. off for cash.

Sale positively "without reserve.
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## Registered Percherons at Auction

At their Barns on the Market Square, Chatham, Ont. On Saturday, April 5th
Messrs. McGARVIN BROS.will sell at auction, registered Percherons, consisting of Stallions, from weanlings to horses ready for service; and Mares, from weanling
Also a number of grade mares and geldings.

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 Jno. Elder. Hensan. Peight 110 yrs., well mated. stalld 16 hawh

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big fellow with
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P. N. Halght, Box 124, St Thomas, ont.

News of the Week.
Canadian. Livingston was celebrated throughout Canada, as in all the world, on Wednesday, March 19th.

The deadlock in the Canadian House of Commons lasted throughout last on Monday. At time of going to press, it is believed by many that an appeal to the country must be resorted to be fore the navy question can be settled.
Unprecedented interest, in Canada, has ollowed the progress of Dr. F. F. riedmann, the German doctor and scientist. Arriving in Montreal a fort-
night ago, he treated scores of consumptives almost immediately after his arrival. Since then, his days have been
spent in restless work. In Ottawa, Toronto, and London, he has administered trentments to scores of cases before
thronged audiencês, chiefly made up of thronged audiences, chiefly made up o
physicians, nurses, and zens. Dr. Friedmann's cure is by hypodermic injection of a liquid which counceracts the elfects of the disease, some what upone the principle of the antitoxin therla cases. He discovered the cure periment, and, before coming to erica, treated 1,800 cases without lailure. In reports from New York, he
has been described as "'nervous," but his nervousness appears to be that of nerv
ous energy. "He is as cool as cucring ous energy. "He is as cool as a cucum-
ber," writes
one enthusiastic Canadian witness, in the Globe. "His fingers are
the prehensory digits of a man who i the prehensory digits of a man who is
seized with a passion. They move swittly and dexterously on account of long practice. But he is always the thinker.'
Great hopes are Friedmann's discovery may indeed prov one that will make the horror of th left for New York on March 15th.
british and foreign.
Fighting still continues in Mexico, wher
bands of Indians are joining the rebe
orces against President Huerta.
The foundation stone of Canberra, the
future Federal Capital of Australia, the first city in the world to be built ac
cording to plan, was laid

Knother earth-slide has taken place in

- Curebra cut at Panama.

Relations between Germany and
are said to be somewhat strained

## Gossip.

Caledonia Milling Co., Ltd., Caledonia to press, of the following changes in prices named in their advertisement for
various farm seeds: Alfalfa, or $\$ 11$ per bushel, was $\$ 12$; O. A. C. No 21 Barley, 80 cents per bushel, was 90
cents; Silver Mine Oats, Siberian Oats, and Banner Oats, each 55 cents, were
60 cents. They 60 cents. They also offer Ligowo Oat
at 55 cents per bushel, and Golden Vine Peas, $\$ 1.75$ per bushel, bags extra; cot ton 25 cents, jute 10 cen
$\qquad$ issue, an auction sale of registere
Percherons, comprising stallions, fro weanlings to horses ready for service and mares, from weanlings to some in
foul, also grade mares and geldings, the wiperty of Garvin Bros., Chatham, Ont Ne wanting a geore assured that any
 IT..ating ... Dercheron horses, and the


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IMITED NUMBER OF ONTARIO FARMERS d of ontario farmers fertilizer in the renovation of old merits of Basic Slag as a clay or sour soils, shall this season become known in every agricutural district in Ontario.

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the farmers in Ontario will find mey will come back because Slag as their fellow agriculturists do in the Maritime Prov-
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| The Ingle Nook. (Continued.) LETTER FROM GREYBIRD |
| :---: |
| Junia and Ingle Nook Folk,-1t is |
| so long since 1 wrote you last that I |
| to begin again. Anyway, the story ot |
|  |
| you must be heartily sick of it. |
| letter by Duskie. The |
| almost ideal, or |
| oo rule, and |
| all said, not rek, nut ato out |
|  |
| We have to remember that there |
| deal ot human traity in the |
| more ot the great I AM, even |
| at people who protess to love each |
| To go back a bit, I have a |
| to say to "Another Wolt," who |
| that a man who would help his |
| in the house was a sissy (I don't |
|  |
| whice ito. Bush! She didn't know |
| h. tor we aro told that he that is |
| Mtal in in itue is taithul also in much, |
| hat I think that hoveserork is of |
| consequerce, but we otten see peo- |
| ho strive to |
|  |
|  |
|  |
| to |
| t, who are the ones most fit |




David, who was arterwards king of
Israel, had not stayed at home and at tended to his lowly suties, at hume and as mind-
ing the ing the sheep, when he would far rather
have been away with his brethren tave been away with his brethren fight
ing the Philistines $-i$ ir, I say, he had not attended to those humble duties, do you
think think he woulle ever have been called to to
fill the position he was upon position he was atterwards called
upon to fill ? Coming down to our own
Cital time, I know a mang whown tio nor own
dain, nor does he yet who did not dis dain, nor does he yet, to do little dobs
around the house, and who can wit
are
 Somers. after his name. Then take the
peerage, their, belonging, to the British perage, their, motonoting is, "To the be ritish
rather than conspicuous,", rather than conspicuous,", and the pres-
ent peer, who is, ns I $I$ hear, taking up
tarmine
 practical elecect to this motto To
other who backed up .anothe To
I wow I would say acked that up "Another Wort,"
problem ing as the the labor will sometimes have Canada, the women
and the men women's.
Therents works grace in any kind of honest work, so let
us take to ourselves the motto, "To be
usfulu er as to Sherard McLeay. I than consincuous." Then, all right. Someone has said the is
woman

 lieve in women working like that don't be the
time-it the the starting in life are youmt if a couple and have great ambition to got strong,
of their Their own, I don't see why they
should not make an extra-special effor
tor the first few yemer the first few years. In, It would be exial
foolish, though, to keep at it too long,
or till their health broke down
would be still mon
that that all their lives, boolish to wocause work they like can
never carry anything away out cat
anything away out of this
them. Then there

## ח



The Men Who Make Big Ben
 La salle, Illinisis.
His orly baggage was an idea-the
plan of an anatomatic plan of an automatic process he had
invented, and which would make more alarm clocks and better alarm
clocks than hand labor clocks than hand labor could ever
hope to turn out. With the backing of some local
merchants and with a handful of clockmakers, a small factory was started on the edge of the town.
-Beginnings were hard, competition. intense. They weathered storms that would have knocked the fight
out of weaker hearted out of weaker hearted men. But when success at last came in
sight they had built one of the best sight they had built one of the best
equipped clock plants in the world
and one of the greatest names in the Today, the Westclox people number 1,200 . Every week day of the
year they turn out 10,000 alarm year they turn out 10,000 alarm
clocks-alarm clocks of every decription and style - their name
"Westclon" "Westclox" is on every one of them
and Big Ben is the king of them all. Bit' Ben is the idal of the Wesclox people.

 Only the finces materials are ued in his mak-
inte be is stronge massive und punctual. His lace







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Run the cutter with a big portable
Rumely-Olds Gasoline Engine $15 \mathrm{~h} .-\mathrm{p}$. to $35 \mathrm{~h} .-\mathrm{p}$ nd you have a combination that cannot be beaten for economy and reliability. Fill your silo in half the usual time-you will find plenty more work for the Rumely-Olds Engine besides cutting ensilage. It's the handiest thing on
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 varietles and prices:
WARTRR
Maiden Cantre P.O. ANDERSON
Eseex, Out



 the roster crows, the young one learns,
and
and that and so it is. She may doo her level
beats she may send or take the children to chure and sundeysonool, nend ataren
them the best sho knows how, and yot on rast act of their fathor may bring

 hear the "Well done, good and faithful
servant." If this woman would write servant." If this woman would write
to me, I would like it very much. Junia will give the address.
Then, about the Convention. It was
strange that nobody discussed it with you, Junia. I am sure it was worth
it. Many and many a time I thought it. Many and many a time I thought
about it, and all I would write when I was able, but the time has gone by, till
now it is an old story, and still I would like to say a few words yet. In the
first place, why do they call the lady in $\begin{array}{ll}\text { frrst place, why do they call the lady in } \\ \text { the chair the "Chairman." It seems to } \\ \text { me like an "Irish bull." } & \text { Why cannot }\end{array}$ they say the "Chairwoman," "The lady,
in the chair," or the presiding offcer?" and why do they put ladies to fill the
position who have peor, weak voices, so that when a name is called nobody knows
who the speaker is, and those who are who the speaker is, and those who ar
taking notes have an awful time to find out who is who. And then the hall,surely a better building could be got in
all Toronto than the one on McGill street I It is dark, and dismal, and hot and stufly. Nevertheless, women will put
up with a lot, now they have got start-
ed, rather than do with ed, rather than do without their conven
tion. There were lots of good thing
said said at the last one, and Junia gave a
very "sot" there and took everything in, and
her hand fairly flew over the paper There were one or two things that would like to emphasize, however. On Was the high-heeled boot put on the
screen by Dr. Backus. Why, on why will women wear such monstrosities, and Walk on stilts? If people would only
refuise to buy such things, they woul refuse to buy such things, they-would
soon ceasee to be made. Then another
was Was babies' "comforts" (so - called).
When I see such things; I feel so towering mad that I feel like taking them and
stuffing them into the mouths or down stuffing them
the throats of the people who or dow to the babies. How would they feel it, when they were hungry, somebody stuffed
a thing like that into their mouths? a thing like that into their mouths? If
babies are properly cared for, and fed babies are properly cared for, and led
at the proper time, no such trash is needed, and I am pleased to see that the
doctors and dentists of Winnipeg are dedoctors and dentists of Winnipeg are de-
manding that the Legislature take steps to prohibit the sale of the same. Then I wonder how many took notice of what was said regarding women being put on
as school trustees; and I wonder how as school trustees; and I wonder how
many having the property qualifications will take advantage of the same, and
help along the good cause in their sec help along the good cause in their sec-
tion. And what about a national dish for Canada? It is strange that nearly every country has a national dish but
Canada, or, if she has, nobody there Canada, or, if she has, nobody there
could name it. Junia remarked in her notes that she overheard one woman say regarding the Women's Institute, "One would think that it was an organization
of the devil," judging from the criticism of the devil," judging from the criticism
against it, and the opposition it has aroused in one particular neighborhood. Well, that is nothing. There never was a good thing yet but what provoked op-
position. The Agricultural College at Guelph was the same, and who would dare say a word against it now? If it
was something of no account it would Was something of no account it would
never be noticed, but as it is important, never be noticed, but as it is important,
everybody is forced to notice it, and as everybody is forced
we will always have some "way-backs"
amongst us, the kind who say that what amongst us, the kind who say that what
was good enough for their fathers is was good enough for their fathers is
good enough for them, and some, too,
who feel a little good enough for them, and some, too,
who feel a little ealous because women
are coming into their own, and that they may perhaps be losing some of their former influence, or perhaps the
wome women may be showing superiority over and other things, may cause some to ruin
our and other things, may cause some to run
our Institute down, but let me tell you
all, it has come to stay, and as this
animosity against it is general in nearly animosity against it is general in nearly

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 of their construction in detail, write for free tie zureka planter company hmire -
Dairymen, Attention :

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very new place where it is started am going to quote a paragraph for those ho need
"Have you enemies ? Go straight on end mind them not. If they block up your path, walk around them, and do
your duty regardless of their spite. man (or woman) who has no enemies i seldom good for anything; he is made of that kind of material which is so easily vorked that everyone has a hand in it
sterling character, one who thinks for himself, and speaks what he thinks, is 1 ways sure to have enemies. They ar as necessary to him as fresh air. They oep him alive and acti ounded by enemies, used to ras They are sparks which, if you do no blow, will go out of themselvés. Let this be your feeling while endeavoring to hve down anything which those who ar
so bitter against you may bring up. you stop to dispute, you do but as they desire, and open the way for more abuse. Let the poor fellow talk; ther
will be a reaction if you perform your duty, and dozens who were once alienated from you will flock to you and acknowl odge their error.

I do not know who wrote that, but have kept the clipping by me for a long
time, and I think it just suits our Insti tutes and those who speak against them Now, I think I have said about enough For once. I had intended to bring up little about what was said about school-
teachers at the Convention, also Arthur Hawkes' speech about emigrants, but am afraid I have taken up too much space already. Also, I would have liked to touch on the new subject introduced
by Junia recently, "The High Cost o Living," and as I think it is not so much the "high cost of living," as the "cost of living Ingle Nook upon it; also about how much can they keep their houses on Yours sincerely, GREYBIRD. About your question re the term
""Chairman," Greybird, probably the word "Chairman," Greybird, probably the word gard to sex. Years ago, women who yrote a book was called an "wouthorees," one who wrote poetry a "poetess," and so on. Now these words are seldom seen.
I have read your little onclosed note asking advice about your garden arrange
ment, with much interest. of course tastes differ; people must choose what to themselves, seems beautiful. Personally, I think your idea of a lawn, with
an irregular flower - border, delightful. You can grow a great mass of flowers in such a border, especially if it is three
or four feet wide with little "capes" or four feet wide, with little "capes
jutting out, easily tervals. The straight path seems to suit the situation, and would be charm ing if quite enclosed by long borders of
fowers. I see that you have flowers. I see that you have almost
accomplished this already. Be sure to accomplished this already. Be sure to
use plenty of old fertilizer in your bor ders. There is nothing like it to produce luxurious growth.
By the way, I suppose, Greybird, that,
since the "Mending Basket" since the "Mending Basket" gave notic that the "Man's Work About the House"
topic was closed, we should have barred the first part of your letter out. How "ever, since your letter was addressed to the announcement appeared i have before upon myself the responsibility for letting with you, that the discussion, I think, long enough, so, positively, this will

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fertilizer use enough POTASH to increase the amount to 10 per cent. of fertilizer, use enough POTASH to increase the amount ho to do this free.
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at Ottawa if this is not so. Or; if you so desire, you can man fertilizer at your own home. Our experts will tell you how, free. fertilizer at can buy POTASH from your dealer. If your dealer has not got it, give us his name and we will sell to you direct, as we have POTASH, N. B. and Toronto. Write to-day for free booklet and prices. N. B. and ornt starve your rcops. Feed them and they will feed you and your
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ourose pow Shiped
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Do the gangs on your Harrow will HAVE PROOF that it is A SUCCESS
crowd together and raise out of ON HARD LAND-THAT IT PULVERIEES crowd together and raise out of
the ground if it is hard? They wecr't do this on the "Bissell." The
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Tough soil won't Tough, soil won't stick the
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'CAMP' COFFEE puts things right instantly -it soothes and satisfies. 'Camp' Coffee is always fragrant and fresh - easy to make and such a delicious flavour that os once tried you want it again -and againalways. Ask your grocer.



## Gossip.

Clideadale were shitpod trom Soot
 in, Prince Albert, Saske; Thomas wilkin, Brantof, Calgary, Atita.
Cole

Hodgkinson \& Tisdale, Beaverton, Ont importers and breeders of Clydesdale and
Percheron stallions and mares, report th Percheron stallions and mares, report the
following recent sales : To Stewart Parker, of Elliott's Corners, Simcoe
county, Ont., we sold the grand yous county, Ont., we sold the grand young
Clydesdale stallion, Baron Blucher ( 9527 ) sired by Royal Baron (imp.), one of the most noted sons of Baron's Pride. To
J. H. Readman, of Cookstown, Ont., the J. H. Readman, of Cookstown, Ont., the
good breeding horse, Hillheads Premier good breeding horse, Hillheads Premier
(imp.) (7598) (13525), a grand type of a Clydesdale. In the stud, he has
proved himself. to be a sire of merit.

Volume 30, of the British Hackney
Studbook, has been issued, and a copy Studbook, has been issued, and a copy
received at this office, thanks to the Secretary of the Hackney Horse Society Frank F. Euren, 12 Hanover Square London, W. This volume contains 434
pages, and pedigree records of 310 stalpages, and pedigree records of 310 stal-
lions and 583 mares, a total of 893 en tries. The members of the Hackney
Horse Society number 1970. Horse Society number 1,970. The de
mand for Hackneys for export der mand for Hackneys for export during
the past year has been brisk, horses of this breed having left the United Kingdom for Argentine Republic, Belgium,
Canada, Canada, France, Germany,
Italy,
Japan, Russia, Ytaly, Japan, Russia, Spain, South
Africa, Switzerland, Uruguay, and the Arrica, Switzer
United States.

## Trade Topics.

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paper choice ensilage corn of the Mam moth White, Improved Leaming, and Yel-
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this year as very choice. If interested

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Pacific Railway, affording the highest
foriforen Homeseekers' rates will be in effect
each Tuesday each Tuesday, March 3rd to October
28th, inclusive, and round-tri class, inclusive, and round-trip second-
clackets will be issued via Canadian
1'acific Railwn very low rates from Ontario points at and return
P3tes-for example, Winnipeg
$\$+3$, Edmonton and $\$ 43$, and other points in proportion. Each Tuesday during March and April Che Canadian Pacific will run Settlers
Excursion trains to Winnipeg for the accommodation of settlers travel-
ling with live stock and effects, ist car will be attached to the settlers
elfects train. This car will lenve Toronto on regular train at 10.20 p. m.,
arriving ut West tached to settlers' effects train as menFor thuse not travelling with stock and
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nimper
nit., and run through to Winmpreg without change. No charge is
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A Cemt, or write M. G. Murphy, District

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upon the soil, is not unusual (with the
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unio io do io a beter and fater than it
could be done with ordinary hand labor. ev Now. if these men are making big monInt wit worth looking into

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tive onal opropt ant at the botrom rest on the
Hoor, permitting the water to come to the body.


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PLEASE MENTION THE ADVOCATE.

Questions and Answers
Miscellaneous.

Ringworm
We have several head of cattle with
ringworm around eyes, and have treate with a solution of turpentine, iodine Vould you kindly give a remedy? Ans.-See article in issue of March 13 Building Henhouse

1. I am building a henhouse $45 \times 16$ paper. I would plike to through your
enough to enough to allow for floor. Would seven side to high enough at back or north
allow for floor ? 2. How would be the best way
brace it to keep it forward, or keep it from leaning back
fold it stand without? am building it all with studding. Would
you use matched lumber? I purpose boarding it with some cheap lumber and lelt paper. The floor I have reference
to is not the ground floor, but above

Ans. -1 . We think so.
2. We do not understand which type of house you are building, which type
think bracing is netersary. The fiom alluded to is not necessary. Us
matched lumber, or matched lumber, or rough lumber, an
batten the cracks. Sheep Queries. well drained. Can I look for flat, but success with sheep on it?
2. How many ewes can be profitably 2. Huw many ewes can be profitably
kept on one hundred acres, scarcely any Kept on one hundred acres, scarcely any
other stock being kept ?
3 where 3. Where can I obtain a good, reliable
book, on sheep husbandry? Ans.-1. Sheep like fairly - dry, upland pasture, but will do well with good care On comparatively level and heavy soil.
If, as you say, your soil is well drained, you should have no difficulty in getting
good results. question definitely. It depends largely upon the man in charge. It is better
to commence on a small scale, and increase "Modern Sheep Breeds and Manage-
3. "Ment" may be had through this office
men at $\$ 1.50$, postpaid. A good bulletin on
the subject may also be had by applying to the Dominion Department of Agriculture, Ottawa.
Land for Alfalfa-Compounding Fertilizers.

1. In reading Prof. Moore's address, "Aifalla Experience," in February 27th issue of "The Farmer's Advocate," he
says, "Assuming that the field was well shoys, " Please explain to a beginner,
chosen.
what should bo taken into consideration What should be taken into consideration
in choosing a field for allalla? What kind of material should be used to make caps for hay-cocks, and what could a person use to hold caps on, seeing it
would take so many weights? 2. How much muriate of potash ( 50 per cent.) should be mixed with a a 3.8.4
 Ans.-1. The best soil for alfalfa is a high or rolling clay
covers may be used. These may be purchased at some dealers. Canvas
fastened, not by weights, but by long Yastened, not
wooden pins, thrust into the pile. 2. In 2,000 lbs. total mixture
3.8.4. fertilizer, there would be 64 lbs nitrogen, 160 lbs. phosphoric acia, ant
80 lbs. of potash. $\begin{gathered}\text { This might be got- }\end{gathered}$
Ton from 400 lbs. nitrate of soda, 1,066 ten from 400 lbs. nitrate of soad,
lbs. of acid phosphate, and 160 lbs
muriate of potash, with 374 lbs. murre. In 2,000 lbs. total mixture of a
filler. In
3.8.10. fertilizer, there would be 64 lbs.
nitrogen. 160 lbs. phosphoric acid, and
and nitrogen, 160 lbs , phosphoric acid, and
200 lbs of potash, gotten from 400 lbs nitrate of soda, $1,066 \mathrm{lbs}$ of acid phos-
phate, and 400 bss. of muriate of pot-
hath and 134 lbs. of filler. This would mean an increase in the latter of 240
lbs. of muriate of potash. This is as
It suming that home-riming
"Earlie, why don't you let your little
brother have your sled part of the time ?" Io, ma. I take it going down the

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That's the big reason why you only hear of Spramotors and ordinary spraying outfits now-a-days. The supremacy of the Spramotor in every class is unquestionable. It would be marvellous if we couldn't produce more efficient, economical and
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rors for
It does not matter what your spraying needs may specifically built for your purpose-a mayour purpose-a ma-
chine that will do more and better work than any other spraying outfit in its class-a machine that will give you endless satisfaction, because it is built to endure.
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money is saved with a "RENFREW" Handy Two-Wheel Truck Scale

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is to know about I HC wagonit is safe to say that your next wagon will bear quality and honest value. Every piece of wood used in I H C
wagons is carefnlly selected and air-
dried. Only in air-dried lumber does
wood retain its full strength and elastic-
ity. All steel or iron is selected with the same care t
secure the greatest possible strength. Tho secure the greatest possible strength. Thorough knowl
edge of the strain each part must stand is necessary canse a wagon, like a chain, is no stronger than its canse a wagon, like a chain, is
weakest part. Every part of 1 H
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 stronger than another, know the exact strain it will have to bear. This same thorough knowl-
edge has enabled them to build a wagon of light draft, which puts the least strain on the horses, without impairing the strength or dura
bility of the wagon.



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agent show you an IH C wagon, or, if you prefer agent show you an I H C wagon, or, if you prefer,
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Gossip.
The Forester Farm, at Oakville, Ont. is advertising for sale a couple of young Aberden-Angus bulls, and two young cows. heir herd did quite well last year, and hey have a few more than they care to tcular ticularly fine crop of Dorset Horn lambe this year that are doing well, and they are prepared to sell several of the ewes
or ewe lambs to make room for young stock.
H. C. Hamill, Box Grove, Ont., breeder of Ayrshire cattle, ordering a change of advertisement, writes: Although early in the year, I find myself sold short o Saskatchewan. The get of Woodroffe Com rade 20329, have done remarkably well, six daughters having already qualififed in good records in milk, end none under four-per-cent. butter-fat. ${ }^{\text {the }}$ The bulls for sale are all from good dams, are good
individuals, and will be sold worth the money

A WORLD'S AYRSHIRE RECORD On March 2nd, 1913, the Ayrshire cow Daisy of Ferndale -26735-, qualified in the Canadian Record of Performance test
with $15,533.9$ lbs. milk, and 590.8 lbs with $15,533.9$ lbs. milk, and 590.8 lbs
butter - fat, equal to 688.7 lbs. butter biter - int, equal 365 days, and is due to treshen
giter Aprii 25 th, next. This cow is owned
by W
C Tuly by W. C. Tully, Athelstan, Quo., and wa
slightly over four years of ago when sh slightly over four years of age when she
entered the test. This cow now holds
The the yearly reord for milk and butter in
the four-year- old class, outstripping Bessie of Rosemount, owned by Geo. $A$ McFadden, Bryn Mawr, Pa., that held
for some time, the world's record, with for some time, the world's. record, with
14,102 lbs. milk, and 578.17 lbs fat.
R. Honey \& Sons, Brickley, Ont breaers of Holsteins and Yorkshire
write: type boar, fit for service, for which we
will (for immediate sale) take $\$ 25$. We also report the sale of our herd
Lakeview Burke Fayne, to W. A. Ande son, of Peterboro, Ont. He should be a good purchase, as he has a_good num-
ber of high-testing sisters that average 3o..63 lbs. of butter in seven days. Hi
dam has two $30-1 \mathrm{~b}$, D. Mcephail, of Sonya, we sold a grand
son of his (trom his. son of his (from his only $\begin{aligned} & \text { saughter, that } \\ & \text { has freshened yet). } \\ & \text { She } \\ & \text { gave }\end{aligned}$ 2,900 Libs. of mink betore she wa two years
old. The sirie of the calt is from m Calamity buire of the has two R. O. P.
daunhters aughters, and two R. ou. daughter
to date. We have a couple more buls to date. We have a couple more
fit for service of similar breeding.

Volume 34, of the British Shire Stud book, has been issued from the press,
and a copy, by courtesy of Secretary $J$, Sloughgrove, 12 Hanover Square, Lo don, received at this-offce. This vol
ume is the largest ume is the largest in the series, con
taining 1,322 pages, with pedigree ree ords of 1,048 staglios, with , and 3,813 mares
and
a total a total of 4,861 entries in one year.
Official export certificates were issued during 1912 for 455 Shires, sold to ${ }^{\text {go }}$ or moad, the United States taking 231 ,
or more than hall the number, Canade 85, Australia 60 , Ruscia and South
Arica being next in order of numbers. The Shire Horse Society is of numbers
a very prosperous in ship
sires
numbering
$4,200$.
at sires of prizewinners in 1912 , shows
Lockinge Forest King at the head, with
Ioc whers; 35 irsts, and 28 second
The second horse in the list is Redlync Forest King son of Lockinge Forest
King, and the third is Tatton Dray
King

Trade Topic
Every house should have a bath - tub,
and this has been made possible by the
 anoque ont, whose advertisement ap-
pears in this issue.
Look up the advertsement. It is worth while, for the
uh is not high in price, and may
uarried to any room in the house. arried to any room in the house.


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 | IoS. W. HoLMAN. $\begin{array}{l}\text { (222).Inspected and enrolled; write } \\ \text { Columbus, Ontario }\end{array}$ |
| :--- |

Questions and Answers. Miscellaneous.

Various Queries.
 down for lertilizer as red clover, and
how many pounds per acere should be sown? 2. In growing alsike clover for seed,
what is the best method of harvesting to secure the largest per cent. of seed ?
8. In erowing Dutch clover for seed 3. In growing Dutch clover tor seed,
What soil is the most suitable, how is it harvested to get all the seed, and
how many pounds oot sed how many
per acre 4. Last spring I started with two
Colonies of bees six colonies ines all, but increased them to to to swarms by their going to the woods at
times when I was at work would advise me to use entrance guards, or alley traps, to prevent this next sum-
mer ? They
mithout suant Without a
hive at all.
5. Three years ago we built a cement
block house, with chimenys on the out-
side walls. When the side walls. When the wind is on the
sides the chimneys are there veen the sides the chimneys are, there seems to be
no draft.
ase the chimeys so porous
as to allow the air to go throung and thus stop the draft? Can you suggest anything to wash the chimneys with that

will stop this? I have used cement and | will stop this? $\begin{array}{l}\text { Y havo used cement and } \\ \text { buttermik as a wash; also used } \\ \text { gal- }\end{array}$ |
| :--- | vanized iron over the top to prevent

wind from coming down. Would putting the furnace and kitchen-range pipeas
into one chimney make any difference ? 6. We have a young Holstein. cow.

treshened her second time, and at first | freshened |
| :--- |
| she filled a pail with milk, but is falling | of in milk to less than hald of her frrst

fow. She gets all the feed she can eat, flow. She gets all the feed she can eat,
and yet not go oul her feed, of cut straw and corn, and chopped oats two parts barley one part, wheat one part, and pulped roots and hay. Is tiat the fraw
oot the oow not being of a mikking strain
or would you wee some diferent feed ? 7. In puttling in a fumace in a farm 7. In putting in a rumace ot a Yarmsteam? Are these bettue bricked in, or
covered with nesbestos ? Would you ad covered with asbestos?
vise the nomes nate some companies where I could write for prices. H. A. Ans. -1 . It does not grow quite as is a fair seeding.
2. Somo. cut with the mower and rake
up, cutting always while the do up, cutting always while the dew is one
The best method tis by using a mowe with a table attached, or a self-rake reaper.
3. Use a table on the mower. Sow
friom four to six pounde per acre on
 4. It would 5. Is the flue large enough? It would seem that much was due to the dirrac
tion of the wind, so some of the difmculty is due to outside conditions. It is not likely that the chimneys are por-
ous enough to stop the drati. ous enough to stop tho draft.
6. The feed is
is good. 6. The feed is good. 8he is ikaly
naturally a cow of ebort lactation periods. 7. Get this inforration from furnach
companies advertising in this journal.

## Veterinary.

Fatality in Horses.
Horses sheath swellud. I gave hin
saltpetre, but veterinarian next day. His
gent for my veterinarian sent for my veterinan. The veterinarian
throat was swollen. left a liniment and powars, and
lealling went down. The appetite failed,
ewn and my veterinarian visited him again

 toms lasted wo the matter, and ho
died. What was treated him? showld 1 B. C. P.
 of innuent on, becme complimated whi
This later on
digestive derangement.

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hard, flinty bone, sure breed. hara, flinty bone, sure bred-
ersi; horses that will make you money; and a few
extra good Clydes, $i t$ to 7 years old, weighCome and pee them; itwort the long or one

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Questions and Answerio



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and Healing Powde an. Sample mailed for 2 c Equally good for man or beast; it cures burna, scalds,
cuts, sores, wounds, skin cracko. It is pleasant to use,
 either confirm or disprove my diagnosis.
as it is not possible an examination.
Mud Fever-Crippled Pigs.

1. Pregnant mare has eruptions on
heels and above the fetlocks.
2. Hog went lame bn fore and hind
foot of same side. His limbs are not
swollen, and he can rise, but is very sore
when he moves.
w. C.
swollen, and he can rise, but is very sore
R. C.
whe he moves.
Ans. -1 . This is mud fever. Feed on Aaxative food. Make a lotion of 1 ounc
each of acetate of lead and sulphate
zi zinc in a pint of water. Dress the
parts three times daily with this. parts three times daily with this, and
is possible, keep her out of slush and
mud. As she is in foal, it will not be mud. As she is in foal, it will not be
wise to give her a purgative. 2. The symptoms indicate rheumatism
See that he is kept in a dry, comfort able, and well-bedded pen, and that he
has a wooden floor to sleep on. Rui has a wooden floor to sleep on. Ru
the joints well three times daily wit hot, camphorated oil, and give him
grains salicylic acid three times daily. Miscellaneous.
3. Two-year-old heifer took diarrhea,
passed large quantities of dark - colored
liquid, seemed to have no control. of her
liquid, seemed to have no control of her
bowels, and died in two days.
4. Two-year-old heifer is not thriving 2. Two-year-old heifer is not thriving
well. She eats slowly, and I never see
her chewing her cud. her chewing her cud. I feed turnips
straw, and oat chop once daily.
5. Sheep became stin straw, and oat chop once dal
6. Sheep became stifif on hin
refused to eat, and after refuse
died.
Ans.

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y times successfully, she is always a cause of worry and anxiety to the owner through the fear of losing by death the often very high cash value of the Beast, not to mention service fee, care and expenses incurred for no avail. Why risk such loss when a payment of a few dollars in premiums would cover you should it happen. Reduce the amount oi the Risk by insuring, only risking thereby the loss of the Premium if the mare foals allright.
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Galt with us by correespondence only. Aberdeen Angus 2 young bulls and 2 young cows too
calve soon for sale. Best of stock. FORSTER FARM, OAKVILLE, ONT. Por Sale-Angus Cattle. Some nice yearling buills and good females, all ages
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HANAGGRR CorAPB GRANGB" FARN
Clarksbur Ont.

Questions and Answers. Fertilizer for Buckwheat. What tertilizer would I reauire for
about one acre of buckwheat, "Silver about one acre of buckwheat, "Silver
Hull," on a worn-out, sandy (inclined to Hult, on a worn-out, sandy (inclined to be gravelly) soil
Ans.-Try 120 lbs of nitrate of soda,
300 ,
300 Ibs. of acid phosphate, and 120 lbs .
of muriate of potash.
Wants Bees.
Could you give me the address of some
beekeeper who has colonies for sale, as
I wish to buy one or two colonies, to see if they will prove proftable in this northern country? T. R. H. Ans.-Parties having bees to sell
advertise through these columns.
Harness Oil-Itchy Tails.

1. Kindly advise, in one of your issues,

 | 2. Hair of harses's. |
| :---: |
| very short $\begin{array}{c}\text { tails is getting } \\ \text { (not they } \\ \text { They occasion- }\end{array}$ | Very short (not thin). They occasion-

ally switch and rub.
for remely.
forll be obliged Ans.-1. We know of nothing better than harnese oill, which maty be obtained
at a harness-shop or hardware. 2. Clean the tails out thoroughly, and
it necessary wash them well with soapsuns. Be sure no lice are present.
Dress daily with a solution of 40 grains of corrosive sublimate to. 1 quart of

## Rape Blighted

 What is the cause of rape blightingbrown and purple. We had a field of
of twelve acres, half of which was manured
with a good coat; the other hall fair condition. AAttart, thewe other hall fair pot pieces came
up fine, a marked appearance, however, in



 part of field. Field had a gradua
slope north, but. quite dry and level
dark, heavy, clay loam. Ans.-This may have been due to som
kind of organism or fungus, but migh also occur as a result of being sown too
thickly. Sow rape in drills, and cult hick ${ }^{\text {haty }}$ Sow rape
vate it like turnips.

Fertilizers.

## What mixture of fertilizer should on

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Win, the remainder when preparing the nitrate may
applied when planis are nicely up.


95 AND UPWARD AMERICAN SEPRRATOR
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AMMERICAN SEPARATOR CO., Boz 1200 Bainbridge, N. Y

## maple leaf <br> BRAND

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Is the best food to fatten an animal in the shortest time; it malti-
plies the feeding values of all grains and fodders fed with it, and "eads all other feeds in manurial value for fertithree times the digestible protein or muscle-making element contained in a ton of corn, and protein is the most costly necessary and valuable element in food. Feed "MAPLE LEAF" OIL CAKE MEAL and WATCH THE
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REGISTERED SHORTHORNS
Also Horses, Pigs and Barred Rocks. Property of Ira B. Vannatter, Ballinafad,
Wecmesclay, Marooh 2eth, '18
14 Shorthorne- 10 bulls and 4 females, all of choice breeding. Foundation of herd was Actrees, 6 th,
imported, and Pearlett Butterfly, by the great imported bull, Baron Camperdown; followed by
 ced; and present stock buli, Roan, Chief aleo included In sale, Conveyances will
meet morning traine
at
 BENJ. PETCH, Auctioneer,

IRA. B. VANVATYER, Proprietor,

## SHORTHORNS I <br> Have now a choice lot of young bulle to offer ; also with something nice in heifers. Catalogue of herd and list of  <br> 


 5 Shorthorn Bulls 5 - Whe have for sale at onderate prices five Scotch
 Myrtle G. T. R. \& C. P. R. $\quad$ Long-distance 'phone to breed to. Will sell cheap. Geo. Gier \& Son, Waldemar P.O., Ontario.

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Send to the Department of Inland Revenue, Ottawa, and ask for Bulletin No. 241 on Registered Stock Foods. It will be sent you FREE of all costs: In this Bulletin you will find the analysis of the different livestock preparations. You will also find that MOLASSINE MEAL, referred to on pages 6 , 7,12 and 13 , is found to be $50 \%$ above the guarantee in protides and fat-and below its allowance of fibre or waste matter.


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Shorthorns fix choice young bulls fit Hagervilife $\underset{\text { ROBERT NICHOL \& SON }}{ }$ SHORTHORNS and swine--Hayd Sulle for aale, also cows and heifers of young


ATHELSTANE SHORTHORNS For eale: Five choice young bulls, sired by Roan
Chief (imp.) $=60685=$. $h e y$ are a choicely.
 SECURE ONE OF OUR PREMIUMS.

I5 SHORTHORN BULLS 15


 IO SHORTHORN BULLS 10


Questions and Answers.

Pay for Sundays.
'I am hired by the month. I have always thought twenty-six days a working ways thought twenty-six days a working
month, not including Sundeya, but I
have worked Sundays as well. have worked Sundays as well. Am 1
entitled to any pay for my Sunday entitled
work ?
Ans.-
Ans,-A man hired by the month must oxtra pay. It is quite commen for arrangements to be made whereby the man
has every second Sunday off duty.
Probably Abortion
Probably Abortion
We have five cows that have froshened
before time. Three freshened from three Three freshened from three
before time.
lo four weeks before time. We saved two of these cows' calves, and three cows of
the herd went their full time, and their the herd went their full time, and their
calves were all right. In manth's calves were are right. In a month's
time, two more calved, one two weeks before time, and we seved the calf, and the other one five weeks, and lost her
call. Would you call this abortion? I might say the afterbirth came away might say the afterbirth come away
same as any ordinary cow. As our
cows are in the R. of P. test, wo have been feeding rather heavy. Do you
think $1 \downarrow$ lbs. of oil cake too much for an ordinary cow? Some have said this might be the cause.
Ans.-The oil-cake feeding is not Ans.-The oil-cake feeding is not very
heavy.- We would certainly take all
precautionary measures, fearing abortion. Pure-bred Holsteins.
Will you kindly inform me whether or
not a Holstein can be registered through crossing with a pure-bred sire, and if so, how many crosses ? Ans.-Holstein cattle can not be graded
up. to be eligible for registration in this country. Pure-bred Holstein - Friesian cattle refers to black and white cattle already registered in the Holstein-Dutch-
Friesian and Holstein- Friesion friesian and Hoisten- Friesian Herd-
book, such as are descended from them in direct line, both as to sire and dam, and such imported animals or their de scendants as are registered in the Nethep-
lands, Friesian, or North Holland Herdlands, Friesian, or North Holland Herd
books, proved by the affirmation of breeder of the animal satisfactory to the
Inspector Inspector. Colic.
I have a good horse which has been
working in the woods all winter. Every few days he will come in the etable all right, but in a few minutes will take colic, paw, and lie down, and at those
times facces is times feces is soft. I have been giving
him baking powder and. turpentine, and him baking powder and turpentine, and
in a short time he is all right again What is the cause? What can I give
him? R. him? Ans.-These are attacks of indigestion
Feed carefully on hay oats and bran all of good quality, and in limited quantity. Mix bran or chaff with the oats to prevent these being eaten too fast,
Do not give too much cold water at Dime, ospecially when the horse is warm.
time Feed a tablespoonful of ginger in his feed each night as a preventive. When
he has an attack, give 4 drams nuid ex he has an attack, give 4 drams Auid ex
tract of belladonna and $1 \frac{1}{2}$ ounces each o laudanum and sweet spirits of niter in

Sore Shoulders-Surveying
I have a mare whose shoulders ge sore after being in harness two or thre
days, although Cays, although I am bathing the shoul-
ders after taking ofl harness. I am also using sweat pad with holes cut in
it. Would like Would like to do the best for her, time. She is about ten years old. 2. Also let me know which way is the quickest and surest way to take meas urement of one acre of land, and wha
the measurements are. Ans. -1 . Give rest if possible. Get a
Golly which fits without a pad. Keep Tho collar perfectly clean. a pathe keen
tur well three times daily with cold dur well three times daily with cold
water. Make a lotion of one ounce each it metate of lead and sulphate of zinc a suart of water. Duress three time
sily with this, and before putting on collar apply a little oxideo-f-zin
If ulcers form and refuse to ... apply a little butter of antimony 2 tse a sarveyor's chain. One hun

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Shorthorn Bulle and Heifers-I have a hellera in calk now to offer. Former sires, Joy o
Morning (Imp.) $=32070=$ and Benachie (imp.
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Offering for winter and spring trade, is sidx
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Out
 roan and all graxily, hei is also for sale or exchange.
John Eider \& Sonos Hensand, Ont.
Station and P.
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 Enid that 8 is ocedec
House to one mile from Lucan Crosing. G. T. R
A. W. SMITH, Maple Lodge P.O., Ont
The Manor Shorthorns
 Spring Valley Shorthorns
 Kyueb Bros.

Questions and Answers Miscellaneous

Mushroom Bed
Ans.-You must have a rich, C. Brifici Ans,-You must have a rich, artificial
soii, and a steanly temperature

 garden soil. Put the beds in a well-
drained, damp place, any size or shape drained, damp place, any size or shape
desired, and ten inches deep.
soil firmly and even the
sondy and leave it smooth. As soon as fermentation com-
mences, the and mences, the temperature will rise to
probably over. 100 degrees. When it
falls to 80 degrees, probably over. 100 degrees. When it
fallis to 80 degrees, the bed is ready for
the spawn. Put pieces of spawn about the size of hens' eggs in holes 2 inches
deep and 12 inches apart, and cover
over.

$$
\begin{gathered}
\text { Mare Loses Milk. } \\
\text { Will you please give me }
\end{gathered}
$$

$$
\begin{aligned}
& \text { Will you please give me information } \\
& \text { regirding the following case: Have } \\
& \text { mare eight years old, weight about }
\end{aligned}
$$ mare eight years old, weight about

1,100 lbs. She ave and 1,100 lbs. She was bred for the first
time on July 20th, 1912, to Clyde
stalli time on July 20th, 1912, to a Clyde
stallion, and is in foal. On the 24th
of Ferruan of February, I noticed her udder fllith,
and now the milk drops from both teats and now the milk drops from both teats
continuously, and at times runs in
streams. She has considerable swelling streams. She has considerable swelling
in front of udder. She is in good con-
dition; is very hearty, and has no signs of illness. Has had work and plenty of exarcise al winter. Has been fed on
good, cleann timothy hay and oats, with some bran. We have kept her idle and
sery aniet or the past five days on acvery quiet for the past five days on ac-
count of her present condition. Would count of her proat is best to Would
like to know what what will likely be the result? Ans.-This occasionally occurs, and in not a favorable symptom. It some
times occurs when the footus dies, and in these cases the mare may, at full term, produce a small, somewhat mummified
factus. In other cases the foal dead, but is often weak when born, and
in still other cases the foal is smart and strong. We cannot tell what causea
this abnormalty in many cases. All dry feed and give regular exercise. The administration of 1 dram of iodide of
potassium three times daily tends to check milk secretion, but it is doubtful
whether it is wise to give it. In most cases the administration of drugs is not advisable.

Building Stable.
I want to build a cement stable $18 \times 36$
feet. Please state how many yards of gravel and how many barrels of cemen
are required, also what height should be, and what thickness.
of material and labor.
Intimate
I supply the gravel free. To keep hens in one end
would cement floors be suitable on
end for vehicles, two horse stalls, on end for vehicles, two horse stalls, on
cow stall, and balance of space for hens
could Could you please give plan, with meas-
urements? What height should loft be above cement to hold about three tons
SUBSCRIBER.
of hay? Ans.-Build the wall 9 feet high and one fort thick. It would require abo
30 barrels of cement, and between 7 an 8 cords of gravel. $\begin{aligned} & \text { Your contractor } \\ & 80\end{aligned}$ would be in a better position to estimate
total cost. From figures given, you can
yourself get cost of cement. Your horse stalls would need to be from $5 \frac{1}{3}$ to leet wide, and the cow stall 31 to 4 to
wide. This would take, say, 15 fee of the space in the center. Twenty-on
feet would be left for poultry an vehicles. We cannot tell how to allot this space, not knowing how vehicles yo
you wish to keep, or what
must house. A hen requires about fou must house. of space. Figure out what
square feet for
space you require for the number of hens you wish to keep, and leave the remain-
der for vehicles. The weight of settled
day is generally reckoned at 7 to 8 lus.
$\qquad$

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dealer will tell you Livingston's are better than any others on the market. Ask him-or write us direct-for full particulars.
Supplied in three grindings-Fine Ground, Pea Size and Nutted.
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The spring trade is on; we are doing the largest business we ever did, chiefly with
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daughters. Several imported cows and bulls for
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Ayrshires lase dhan an



Questions and Answers. Miscellaneous.

## Dogs.

Where can I get St. Bernard and New-Ans.-Parties having SUBSCRIBER. Ans.-Parties having these dogs for
sale should advertise in the columns of "The Farmer's Advocate." Breeds of Cattle. English Durham bulls, be located ? 2. What is the best breed for beef also the best breed for milk?
3. Some farmers in ou- section claim
that the EEnlish Durham is the best that the English Durham is the best
breed for beef. Do you consider this
correct? breed for
correct? Ans.-1. The word "Durham," as applied to a breed of cattle, is now ubso-
lete. "Shorthorn". being the recognized name of the breed at the present time. This breed is extensively advertised in
our columns.
2 \& 3. The
2 \& 8. There is no truly "best" breed of
cattle. Shorthorns, Angus, Herefords, Gelloways, all have their admirers as beef cattle in this country, and Holsteins,
Ayrshires, Jerseys, and Guernseys, and Ayrshires, Jerseys, and Guernseys, and
French-Canadian cattle, are all someone's Favorites in the millk - producing breeds.
fand ander The Shorthorn is a good beef breed. -Drainage Required.
A, B and Cown adjoining farms. The
water from A's farm flows across water from A's farm flows across B's
and C's. C has a ditch dug to carry
the water anal the water away, but B has not done
anything to help drain his, and the water floods back on A's farm
so as to drown a large flat of land. A had the levels taken some time
ago, and finds there is across his and B's farm.

1. Can A force B to open a ditch
across his farm? across his farm?
2. If B refuses, how should ceed ? If A cannot force B, can he force
3. the Council, and how? X. Y. Ans. -1 an
the needful.
4. He should take advantage of The Ditches and Water-courses Act, Ontario
Statutes, 1912, Chap. 74 .

Miscellaneous Oueries. 1. In planting sugar-beet seed on level
instead of in drills, is the turnip - seed sower used?
2. Where can I obtain Daubeney oats Yor seed ? I do not find them cata-
logued.
3. What is the relative value of rye and barley: 1st, pig feed; 2nd, cow feed;
3rd, hen feed? 4. I am thinking of sowing clover seed
with oats, to be used for calves to run on in fall, after which it will be plowed
under. Could I sow anything less ent pensive and answer the purpose as well?
5. What do you consider the best time
to sow buck wheat? 6. I have somene hens which seem to be
suffering from diarrhea. Two have be
come lame suffering from diarrhea. Two have be
come lame, and the comb of one has
turned nearly black. each shoulder and and our has hatd a nock. Twoil on
shoulder have dried up anct on
port shoulder have dried up and healed. and
part of mane came off with skin from
one on neck. one of neck. came off with skin from
A NOVICE.
Ans. - . It may be, but many use the 2. Parties having such seed for sale
should use the advertisine "The Farmer's Advertising columns of of
3. Experiments in 3. Experiments in feeding rye and bar-
ley, show them to be, approximately equal value in feeding swine and cattle.
Barley would likely prove the better hen Barley would likely prove the better hen
feed. In any case, these feeds should be
fed in In mixture of graine fed in a mixture of grains.
4. A mixture of oats. Early Amber
Sukar - cane, and red clover, makes the "Kar-cane, and red clover, makes the
vest annual pasture.
5. Dhout the first week in July, usumlly.
is This appears to be tuberculosis.
itl hill one. and af the tiver is colverculosis.
ralsed white or yellowish spots, you with - L.ocal treat ment for such boils condaily umil healed with a lotion
if un. ..nnce each of sulphate of
in mentinc of 11 wetate of lead to a pint o


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## "The Early Tomato Gets The Fat Price"

HEREFORE, we want the early tomato. I've just been reading a letter from F. G. Bridge of St. James Park, near London, Ont., who has had great success in growing early tomatoes. He says: "The

## Harab Fertiluzers











Qours four the fat puries, Opagpeisive Jones
The Harris Abattor Co., Limited, Toronto

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dams with good records, or their daughters either All bred from (imp.) sire and from either imported or home-bred. Some choice February Alex Hume \& Co., Menie, Ont.

 City View Ayrshires ${ }^{-T h r e e}$ yector gordon, Howick, Que.
 JAMES BEGG \& S ? $\mathrm{N}, \mathrm{R} . \mathrm{R} .1, \mathrm{St}$ Thomas, Ont


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Wrtte for particulars, reasonabee. ©ome and make your choice.
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Eantwood Sta., G. T. R. Oxford Centre, Ont


Fung- Rrai reaistral
Holstein Cattle


Holsteins and Tamworths





## THE FARMER'S ADVOCATE.

Questions and Answers. Miscellaneous.
Building Silo rete silo $14 \times 40$ feet building a conto cow stable, conerete also foundation, sixix
feet high. 1. What thickness of wall is' 'required
(or each at bottom and top ?
2. Is
Is

 4. A part ir tage has concrete durability, what advan-
5. 1 run a dairy over wooden silo? b. Irun a dairy and beet farm, have
been breeding Shorthorn cattle (gradeg)

tor nine lors. | Holostin $\begin{array}{l}\mathrm{Am} \text { now } \\ \text { expect ? }\end{array}$ sires. $\begin{array}{l}\text { crosing them with a } \\ \text { What results would you }\end{array}$ |
| :--- | 6. Have an oight-year-old mare which

has been heavily druged we call it). Has gone down in appearance and flesh. When standing, apeary
muscle is in motion. Can there be any-
thing done for her? ( or her? II so, what ? P. T.
 stable wall, 12 inches thick.
3. About 120 . would be preferable.
4. Fireptrant ton it well packed. $\underset{\substack{\text { manent } \\ \text { min } \\ \text { in } \\ \text { in anpeatrance. }}}{\text { and, and more per- }}$
 other.
6. Let $\qquad$

1. Where $\begin{gathered}\text { Veterans' } \\ \text { can } I \text { I } \\ \text { obtain }\end{gathered}$
war scrip?
is it good moch land is it good for, and
 gle man take up land on?
2. What duties has he to can get his patent ?
Ans. - It is presumed that A. G. H. He spondent refers tosesumed that Alrican Volurtere
Land Scrip or to South Africun Voter Land Scrip, or to South Atrican Volun-
teer Bounty Land Certififates, and in re
祭 teer tounty Land Certiticates, and, in re-
ply to tras question, I beg to in-
form you that the form you that the Department does not sell scrip of any kind,, and is not in a
position to fornish information either a position to furnish information either as
to the present current price, or as to
where to where it may be obtained, as it must be
acquired either from the grantees thereot, or from brokers or others who deal in such matters.
South Arricar Certificates may be located adjoining quarter sections ( 320 upon two
Dominion lands available for entry in the Provinces of Manitoba, Alberta, or Saskatchewan, by the grantees
thereot, or by their duly qualifed substitutes, arter the instruments appointing
substitutes have been accepted and reg istered by this Department
ine time in which these certififates could be located expired on the 31 st
December, 1912, but it is proposed to December, 1912 , but it is proposed
ask Parliament to extend for six months, and possibly twelve months, the time for
the location of South Arrican Vounter Bounty Land Certichiteses, on on the samee sed
terms and conditions as were embodied in the Volunter Bounty Act, 1912, and
that, in the meantime, certificates are accepted for entry as fornerlyy $\begin{aligned} & \text { fotes are } \\ & \text { There is nothing in the volunteer }\end{aligned}$ Bounty Act to prevent a person, other-
wise wise eligible, being appointed the substi-
tute of two South Arrican Volunteers tute of two South Arrican Volunteers,
provided such person is in a position to
comply, in respect comply, in respect to each errant, with
all the condititons as to residenee and
and cultivation under which such encrion
granted ordinary homestead provisions of
The or The Dominion Lands Act apply to entries
trantedi under the Volunterer Bounty Act
cher granted under the colutiter Bounty Act
Residence on and cultivation of the land entered for, for six months in each year
durin ar period of throe years, and the
erection of the necessary huildinds the erection of the necessary buildings, is
required. Residence must, in each case,
be in a house actually upon the land





## The McCormick Binder

$\mathrm{A}^{\mathrm{LL}}$ binders are more or less alike. However, there are several features that have an influence on The farmer of today wants more than a machine that will cut and bind his grain. He demands a binder that is simple in construction, easy to operate-one that will harvest his grain under all conditions.
The McCormick binder is simplo in construction, is easy to operate, and

## Handles Grain Under All Conditions

whether it be short or tall, even, lodged, tangled, or full of green undergrowt.iatform so that when the machine is tilted to cut close to the ground, there is no ledge between the front of the platform and the
back of the guards to catch trash, stones, etc., and push them ahead of the cutter bar to clog the machine. demand of Eastern Canadian farmers for a machine to meet loca conditions. It is the binder you want. See the IH C local agent, or

International Harvester Company of Canada, Itd EASTERN BRANCH HOUSES


AVONDALE STOCK FARM



 bull and bull calves from A. R. C. DAMS individual bulls of the breed. His granddams, Colantha 4th's Johanna 35.22 per cent. butter, fat 4.32 per cent, and I Ohanna Colantha 2 nd 32.90 per cent. butter,
fat 5.02 per cent. Average butter in 7 days 34.06 per cent. Avera cent. If you want to increase the buth 7 days 34.06 per cent. Average fat 4.67 per hese bulls. I can spare a few good cows and heifers bred to the "Champion". Write me your wants and I will try and please you MAPLE AVENUE, STOCK
FARM, L. E. CONNELL, Prop., FAYETTE, FULTON CO., OHIO, U. S. A FHRUIEN FARM'SHER OFFERS some of Pontioc Korndybe daughters that have made 7 -day records above 30 pounds and the oull that ever dired 15
 and eight others above 30 pounds? If you do, write me for orice on 3 enn Pontiac Korndylke. I also have ons of Rag Apple Kornd orke and Sir Jobinno
Colantha Gladi. E. H. DOLLAR, HIEUVELTON, NEW YORE. Near Precoote.

LAKEVIETY HOLETHINE We are now testing some of the daughters of Count Hengerveld
Fayne De Kol, and they are running from $16 \frac{1}{2} 1 \mathrm{lbs}$ s. with first calf to 20 liss. with second calf. There ares stiol f few young bull from fromese these
heifers that we are offering at half their value, in order to mel heilers that we are orering at hail their vaue, in order to make
room. They are sired by Dutchland Colantha Sir Mona. Come to the farm and see the dams of these bulls and their dams.
E. F. OSLER, BRONTE ONTARIO





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 $\frac{\text { Phene }}{\text { R.R. Sth and Tel }}$ Oifce. London.



 VIISTEIISS ul VIMKSillifs Minster Farm ofiers


 REG. POLAID GHIIAS 1 am ofering for oate boar. 10 montha, and sow
 Beggar-"Will you please, sir, ${ }^{\text {and }}$, give me
ton centa for a night's lodging?", Philanthropist-"' I 'll give you five cents


## Questions and Answers.

 Miscellaneous.Ditching Machines Are there any ditching machines manufactured in Canada? If so, please give
the names of some firms who manufac ture them. Ans.-No manufacturers of traction ditchers in Canada.

Smoking Meat
A liquid smoke used as a substitute for smoking hams. Please explain what is used, and how. Ans.-First boil for half an hour six guarts of water, one-hall pound brown sugar, one ounce saltpetre, and two pounds salt. Skim well and set aside until cold, then pour over the fresh meat. Let stand two weeks in a cool place, then drain and wash well. Without Wiping, roll in bran until thickly coated, then smoke. A large ham should be smoked for ten days to two weeks in barrel or hogshead.
Premium Notes-Overhanging Trees, 1. Can an insurance company, doing
business on the premium - note system, ousiness on the premium-note system,
such as the surance Co., having failed, collect Mutual than the face value of the premium note ? 2. Are the policy-holders insured in the
company considered part of the com pany ?
8. Are the policy-holders liable in 8. Are the pollicy-holders liable in case
of failure of company, to any liabilities of the said company; to any liabilities 4. I notified my neighbor to remove all his branches that hung over the line fence that shaded my property, and he only removed a lew parts of the lower ones. What steps would I have to take
to have him remove the rest of them? Ans.-1. We cannot tell without further information respecting the contract.
2. Inasmuch as it is $\underset{\substack{\text { 2. Inass } \\ \text { pany-yes. } \\ \text { s. }}}{ }$
pany-yes.
8. It is quite possible that they are 4. You have a right of action against
him for a mandatory injunction, or you him for a mandatory injunction, or you
can yourself cut the branches so far as they overhang.

Gypsum.

1. When would be the best time to apply land - plaster to potato and corn corn and sow it with the seder with the corn and sow it with the seeder ?
2. Would it injure potatoes handful in each hill ? potatoes to put a
3. Would it be beneficial to sow 4. Would it be beneficial to sow it on
land intended for turnips and mangels, and if so, how many pounds to the
land Would it be any benefit to sow on
lo oats and seeded down, and land sown to oats and seeded down, and
the number of pounds to the acre? 6. How many pounds to the acre would
it require on allalfa and red clover, and when best to apply it?
4. Would it be of any use around young apple trees? tion it has never been used in this secfor the benefit of we young farmers you, scribe its benefits in young farmers, do-
it is compal, and what Ans.-1. Early in the spring. A. M. Ans.-1. Early in the spring. For
best results, it should be applied some
time be time before crop is sown.
5. Could you distribute it evenly thus? 2. Could you distribute it evenly thus?
We hardly think so. Hetter sow it separately, by hand, on top of the soil. fertilizing. Better results, all things
considered, come from broadcasting. considered, come from broadcasting.
4 and 5. Gypsum, because it carries some sulphur, is considered beneficial for direct fertilizer, but liberates phosphates and potash in the soil, rendering them
available to the plants. Thus, if used year after year, it will deplete the supplies of these materials, unless they are
added as artificial fertilizer better be done in place of using the gypsum.
6. If you decide to use it, try from
160 to 200 . 160 to 200 pounds per acre.
7 . Not much. Better use a direct fertiWe would advise the use of a complete
fertilizer in preference to gypsum.

terested, send us a postcard with the word "Roofing" and your name and address -- then we will send you valuable informatlon about your

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