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**AGRICULTURE, STOCK,DAIRY,POULTRY, HORTICULTURE, VETERINARY, HOME CIRCLE*

## 

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LONDON, ONTARIO, MAY 4, 1916.
No. 1232

## Frost =Fences

## Present a Good Front

## ANGLE IRON AND WOVEN WIRE

NEAT LOOKING

PRICES REASONABLE

## Woven Wire Lawn Fences

(Made in Three Styles-Standard Heights)
Perfectly Woven Fabric - Only Automatic Loom in Canada
The illustration below is Style "S." There is also Style "L," with the shorter bowed stays omitted, and Style "LP," with stays close all the way to the top.

FROST WOVEN WIRE LAWN FENCES can be built on iron posts with pipe top rail or on wooden posts with scantling at top. We use heavily-galvanized material, as the painted fence soon shows cracks and peelings; rust soon follows. The wire in these fences, like all our material, is drawn and galvanized in our own mills, so we know its quality.

Standard heights: $3,31 / 2$ and 4 feet. Bowed tops are even. The uprights of No. 9 are deeply crimped and securely held in place by a reverse twist of the two No. 13 twisted lateral wires. To prevent the bottom of fence from becoming loose or "pulled out" the uprights are alternately crimped one way, then the other.

Gates are made to match any style or height of iron or woven wire lawn fence.

Flower border, heights 16 inches and 22 inches, same construction as Style "L."


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Strength and Lightness Combined
Being constructed from angles, the fence is light, but stronger than round or square bars of $1 / 2$-inch or $3 / 4$-inch thickness. Quite massive in appearance, but much lower in cost than the ordinary types of iron fences, on account of its lesser weight. FROST ANGLE PICKET FENCE is durable and neat.

MATERIAL IN DETAIL: Horizontal rails, 2 inch angles, $1 / 8$-inch thick. Pickets, $3 / 4$-inch angles, $1 / 8$-inch thick, fastened to horizontals through a " V " slot and securely rivetted. Fence is practically rigid. Six-inch square posts at ends and gates. These 6inch posts are made from four of the 2 -inch horizontals fastened 2 inches apart by 2 -inch steel plates, top and bottom, strongly rivetted. Line posts are made of two horizontals fastened closely, making a 2 -inch square post. The made-up panels, 8 feet long, are tightly bolted to line and end posts.

Send in a rough sketch of any property you contemplate fencing, and we shall be glad to give you an estimate of the cost of whatever style you prefer. We have reliable agents in almost every district.

Get a catalogue with detailed information.

## Frost Wire Fence Co., Ltd.

Hamilton, Canada

THE FARMER'S ADVOCATE


## Fencing? Yes, but what kind?

The farmer who thoroughly examines the relative merits of he various brands of wire fences offered to him will not have any difficulty about deciding upon the one he ought to have. Why judge by weight? Because weight means strength, and strengti means durability and long life. Of the different makes of wire ences, there must naturally be one that will weigh heavier than the rest.

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The reason is that all the wires are full gauge No. 9 hard el wire- every wire is full of life and strength, and heavily gal anized to properly protect and preserve hat strength. You therefore get longer ervice from "Ideal"-most for your money in strength, durability and allround satisfaction.

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bility and the long While the life of other of the machine. tors averages from three to five years, a
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## HEREAFTER we will

manufacture only ENSILAGE CUTTERS Money Savers for Farmers

## Practical Parables

A FARMER went forth to inspect his farm. It was near the end of his fiscal year and albeit he thought he had left nothing undone he found that things were not as should be. His stock was lean, nervous and not yielding great profits. His fences were straggling and ready to fall, having otted in the posts. His harrow and certain expensive implements were roof, and likewise his own hted them. His barn admitted water at the gutters that should carry the water from roof to ground did leak too and were in sore need of repair. And even more so, the roofs on his many buildings which had cost much gold and labor, were not attractive nor et durable. So the farmer was exceeding down cast. And it came to pass that a more successful neighbor came unto him and said: A LARGE part of my profits are due to watching the little - leaks. Barrett Money Savers helped me. Take Carbonol or instance. No farmer should be without it. It has all the nerits of carbolic acid without the danger. Effective in a hundred different places. If you cut your hand, apply Carwonol in solution. If your live stock get bruised, Carbonol ing easier. Begin to economize today by buying Carbonol.
"A LEAKY roof means more than incoming water. It means Amputgoing money for repairs or damages. Begin right with on your the ready roofing that needs no paint. Put Amatit hurt Amatite. Its sparkling mineral, surface improves the ap pearance of any building and guarantees durability. Made in rolls of 110 square feet, with galvanized nails and cement in roofing troubles with Amatite.

"THE greatest enemies to live stock and poultry are liee, and happy by spraying them with Creonoid, and I spray my roosts regularly. It is the most economical and effective animal antiseptic I have ever seen, and I've aried them all. All you have to do is spray your stook once or twice and their pests wil go away, leaving your hens, cows, pions carefully. There are many other valuehle nee for Creonoid and you had better ask them to send you their booklet on the subject. Don't delay when the solution of your problem is so easy.
"T USED to help the Farm Machinery Company pay Paint dividends until I was advised to try Everjet Elastic Paint. You see metal seldom wears out; it tusts out and cracks. There is more merit in Everjet than I can tell you of. Everjet is especially recommended for use on
 ing capacity. Protect your roofs and machinery with Everjet "YOUR wooden fences would have been good for (E) Grade One the posts with a good wood preservative. Why not do Creosote Oi] Oil. Tests have shown that it is the best wood pre
 and lasts longer than any, other. You can't beat creosote for insuring the TF YOU 1 covering that will keep wind and water out perman- 1 NERLAST] ently, at low cost, you should try Everlastic Roofing.
There is no better 'Rubber Roofing' on
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Grown on our Seed Farms
From seed of our high yielding strains. Our farms are devoted to the production of seed and our object is to supply our customers with seed that will produce arge yields of grain and tonnage of silage. Our seed is harvested when mature, every ear cured separately. Tested b.
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## These Pictures tell a Story of vital interest to YOU

They show the penalty-yes, penalty of being without a telephone. When you want a "Vet" you usually want him badly. His immediate attendance means all the difference between life and death to valuable stock.

Or suppose you or one of your family are taken ill with apoplexy or appendicitis or some other equally vital illness, the matter of an hour may mean mortal agony, or death.

Read what these practical farmers say about their experience with the telephone:H. J. Bray, of Plympton, Man., says: "The telephone saved my life. I had been away for a holiday, H.J. Bray, of Pympton, Mas., says. hye wife phoned for our doctor, he was away in the city but our agent got busy and located the doctor. My wife told him how I was feeling; he said he would be out as soon as possible, got here at 11 oclock at night, examined me, said it was appendicitis and must be operated on
right away. So was off to the city next morning, was operated onat 10 oclock. The doctors said it was none right away. So was off to the city next morning, was operated on,"
too soon, another few hours and it would have been too late."
A. Reusch, of Otthon, Sask,, says: "I have had it now a little over eight months; it has not cost me quite $\$ 20.00$. In that time this $\$ 20.00$ has saved me $\$ 200.00$ or more in horses by being abie to get the vet., in half and was enabled to sell my grain for the best figure."
R. G. Thomson, of Clinton, Ont., says: "In case of an accident or sudden illness, its value cannot be reckoned with in dollars and cents. I know of one case where a woman took the wrong medecine by mistake, and had the doctor been twenty minutes later he could not have saved her life."

The Solution

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When the telephone could mean so much to you, why delay? More than 125,000 farmers now have Rural Community telehone lines. Why shouldn't you?
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## The Farmers Advocate Home Maceazin

## EDITORIAL.

Produce what you can.<br>\section*{What land you work, work well.<br><br>What}<br>Kill the weeds early and save labor

There is time yet to test the seed corn before planting.

We cannot afford to hold any peace parley with weeds.

Has your back yard observed its annual Junk Day cleaning yet?

May may be the most awful month the world has ever known.

The grass is yet too soft to be good feed. Give a chance.

Increase the good stock and feed more of what the farm grows.

Keep the stock stabled at least another week. More if possible.

Russian troops have been welcomed in France. The German Crown Prince, take notice

If you would have good summer pasture, do not turn on it too early in the spring.

Give the youngsters a hearty start by providing an early and well-prepared plot for the school fair sompetition.

Thorough soil preparation means less work with the roots. Here is one place, at least, where preparedness means safety.
If the demand for canned meats keeps up Canada will surely soon have fewer "cutters and canners" among the cattle stock.

If you do not believe in co-operating to do the farm work, try it on some heavy work and be convinced. Make arrangements with the neighbors.

The noble generosity of the United States for the stricken in the great war has hardly redeemed it from the reproach of a commercialized neutrality.

Horsemen agree that it is not more horses but better horses that Canada needs now. What are your plans for improvement? The use of better sires ?

Were the roads ever worse than they have been this spring? Surely those who travel them will know where the bad spots are. When they know is the time to make repairs.

Unless all the great nations come to some agreement toward permanent peace, preparedness for war may not prevent war, but it may mean a measure of protection for helpless women and children if more war should break out.

What people are objecting to is not so much the Production and Thrift" campaign nor a campaign for more recruits, but the lack of team work and the lack of system, which is responsible for the taking away of men who should stay, and the leaving of men who could go.

## Surely More Sheep.

To a man who understands sheep and knows some thing of their value, there has always seemed to be among farmers in this country considerable prejudice against this class of stock. It is a fact that only a very small percentage of the farms are carrying any sheep at all, and few, indeed, are the holdings which are well stocked. Excuses of different kinds are given for not keeping sheep, but most of them seem rather lame. We are told that there is a dog nuisance, that sheep are difficult to fence against, that they are hard on the pasture, and that they do not pay This looks like a formidable array against the woolly tribe, but, according to an Act passed by the Ontario Legislature, recently prorogued, municipalities will pay in the future full value for sheep killed by dogs. This should somewhat obviate the difficulty, and we believe that it will have the effect of increasing the tax on dogs in some municipalities, and thus will serve to rid the country of some of the worthles curs which generally do the damage. With a little care the dog nuisance is not as bad as some people believe, and where remurieration in full is possible few should blame the dogs because they have no sheep. From experience with sheep we have not found them difficult to fence against. Of course, the fences must be tight at the bottom, but all fences should, and, in fact, sheep are considered by those who have flocks to be easy on the fences. We are agreed that sheep bite close, and if run in too large numbers with other stock, may be hard on pasture but they will destroy enough weeds to compensate for this, and if properly managed and changed from one field to another occasionally they will not be found to injure the grass very much. And now we come to the most important point. With lamb and mutton selling at prices around $\$ 10$ and $\$ 11$ per hundredweight and wool at forty to fortyfour cents per pound, he is indeed a careless and poor shepherd who cannot make sheep, urider favorable conditions, pay their way and leave a fair profit. It is not always the best time to buy when prices are extremely high, but a small flock started on a right foundation and properly looked after surely would be a paying investment.

## Keep the Cows.

Owing to the abnormal shortage of labor, in some of the dairy districts adjacent to Canada's larger cities, there is a likelihood of there being a shortage of milk supply, or at least higher prices will prevail. In fact, already, producers supplying the Toronto market are raising their price on this account. This is not the most disturbing element in connection with the dairy business, however. A cent or two a quart up or down may not cause any very appreciable increase or decrease in the number of cows kept for dairy purposes in the Dominion, but, if we mistake not, dairying will receive a hard blow if more men are taken from the farms to the war and labor becomes correspondingly scarcer. Dairying is ore farm work which so far has ing is one branch of farm work, The milking machine is solving the problem to some extent, but so far has not been very widely adopted by milk producers. If they cannot get the help or have not sufficient labor within their own families, it looks as if some of the cows would have to go. This will not be so bad if only the poor producers are discarded, and the man who has been testing will know which to feed and which to sell, but a marked shortage of labor, such as Canadian farmers will experienc̣e this year and until the end of the war, will be sure to have a tendency toward decreasing the number of cows kept for dairy purposes. Wherever possible
it would be better to retain all the good cows and plan for a year or two to do a little extra milking, dropping something else, because, at the close of the war, help will likely be more plentiful, and dairy products are selling and will continue to sell at a price which should make them prove profitable. Besides, dairying is one of Canada's most stable forms of specialized agriculture, and is, as well, one of the best paying branches on a farm where mixed farming is carried on. Canadian agriculture must continue to prosper as mixed farming with live stock. As a general thing it would be a step in the wrong direction to let the cows go unless they were of the unprofitable kind which were not paying their way. Keep the dairy cows and more hogs, at the presen ${ }^{3}$ time a very valuable class of farm stock in this country.

## Put on the Spray

Some classes of spraying materials are much higher this year than formerly. We believe that bluestone, for instance, is about six times as high in price as it generally is. This may have a tendency to cause some, none too ardent believers in spraying, to discontinue the practice this year. Such should not be the case. We are told that prospects for fruit are good. If a bumper crop of apples is produced, prices may not be vêry high, but if sale is to be had for the crop it must be good, clean fruit, properly put up. This cannot be expected without proper and thorough spraying. Then there is the potato crop, one of the most important considerations in Canadian field husbandry. It has been demonstrated time and again that to ensure freedom from blight, several applications of Bordeaux mixture are necessary. Surely no one would run the risk of losing a crop of from 250 to 400 bushels of potatoes per acre because bluestone is 25 or 30 cents per pound, as compared with four or five cents per pound, which formerly prevailed. It requires about four pounds of buestone to do an acre of potatoes each application, and four or five applications generally suffice for the season. The extra cost of Tour or five dollare per acre is very small, and should not be enough to even cause a grower to consider dropping spraying. Celery growers also find it necessary to spray for blight, and the most succeseful will use spray material even though it be higher in price.

## One Silo, or Two?

Where a farm is carrying all the stock that it should carry, and where it is all arable land, it is sometimes found difficult to provide plenty of pasture for the stock throughout the summer. Various methods of supplying summer feed, such as soiling crops and annual pastures have helped over the difficulty, but annual pare and more each year, particularly as labor grows scarcer, as if the summer silo would be the best means of solving the problem. When labor is as scarce as it is, every stock farm should have at least one silo, and the bulk of the roughage fed to cattle in the winter should be silage. It may be that before very long we shall be saying the same thing about the summer silo. With a small silo filled for summer use, the dairyman or stockman has no reason to worry about his pasture, and he has his feed in such a form that it may be easily fed entailing very little work during the busy season. When soiling crops must be cut and hauled to the barn, considerable work is entailed. Annual pastures will not produce as much feed per acre as will corn. For economical summer feed, as well as for winter roughage, it begins to look as if corn will be the basis of the ration. Those who have no silo at all would likely find it profitable to build one this year, and to plan to fill it with well-matured corn. It may be

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Address-THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (Limited),
easier to get a builder to construct a silo than to get
a hired man to hoe the turnips or mangels necessary where no silo is in use, and once a silo has been tried it will never be done without.

Pork, a Luxury.
When pigs go up to anywhere from $\$ 10$ to $\$ 12$ per hundredweight, alive, pork becomes almost a luxury on the consumer's table, and the producer, some by-product such as skim-milk, has a chance to make a profit on his pork. Apparently pigs are none too plentiful in this country. As a general thing a period of depression follows one of high prices in any line of stock, due largely to the fact that a large number of producers jump into production price, and consequently, in time, the market is overstocked. Canada has a fine opportunity at present to make a name and to establish a larger market for her bacon in the Old Land. We would again caution of pork by the use of anything but an improved type of bacon hog. The British market pays a premium for choice bacon, and when the time comes, as it surely will, that the market is well supplied with all the surplus pork produced here, in the Old Land. It can be done if producers are careful to adhere more closely to the bacon type and not to produce anything which is "just pig." Packing-house buyers
should put a premium, when buying hogs in the country, on the hog which best suits their requireelse that could be done in establishing a uniform
$\qquad$ crease! Fenceviewer I., thou art a noble brute! leading daily papers, as well as in Canada's oldest extolled from public lecture platforms, from Glencoe to fashionable Ottawa. Books have been written of thy greatness. And now thou art the mother of viewer, thou art the source of much wealth and the cause of much mirth!

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Teachers retained longer.
Attendance more regular.
Secures graded conditions.
Secures graded conditions.
More time for recitations.
Insures better attendance.
Ensures regular attendance.
Eneter class of work is done.
Keeps the boys on the farm:
Petty jealousies interfere less.
Better management is secured.
Better returns for money spent.
Enhances the value of real esta
Special teachers may be employed.
Gives greatly increased attendance.
Buildings better heated and ventilated.
Number of classes per teacher decreased.
It preserves a balanced course of study.
It preserves a balanced course of study.
Keeps older boys and girls longer in school.
It is a school of some character and dignity.
It eliminates waste of time, energy and capital.
School becomes social center in the community.
Better and more experienced teachers employed.
Makes the farm the ideal place to bring up children.
Makes the farm the ideal place to bring up children.
Enables inspector not only to inspect but to
Greater results in work accomplished in the same
Popular with people, teachers and pupils where
tried. is a more attractive school for both pupils and eachers.
Healthy rivalry awakened through inspiration in numbers.
Principal
can prevent errors from inexperience in ssistants. subjects. Morals of pupils protected going from and coming
to school. Health of pupils better preserved on account of It unites and centers the interests of a larger
transortation. ction of people.
It adds tone and dignity to education and to the farm children of the farm have equal opportunities th those of the town.
Better school officials secured by having largen districts to select from.
Those at a distance have equal advantages with those near at hand.
Evokes pride, interest and support on part of the people interested of the school.
Saves cost of sending children away to school, and in moving to town to educate.
It is the only method of securing and holding trained teachers for country schools. It makes possible the taking up of any special
of advantage to the community. The rich and the poor have equal advantages in Every child in the effarm community is reached by
All children attend; not a favored few. School games are made possible on account of
rger numbers, thus adding to the attractiveness of school.

Consolidation is the only known method of pro-
ng a true country school with home high-sciool privileges for farm children. available on account of transportation facilities than the present one-teacher school.
It is the only way of insuring an enrolment large enough to provide the social and cultural contact development of every child. It is the only method where it is possible to make
division of labor by graded classes whereby teachers may have sufficient time to do good work and choose grades
fitted.

And to these we might add-it makes it possible tudy Agriculture Farm Most Science, and Johny to specially trained instructors, and gives the country boy and girl a fair chance.

Studies in Political Ecomony-IX. Last week I submitted certain official figures, toactual economic discrimination against agriculture. how our present suystem of Federal taxation in in large
measure affects this discrimination; and I refer only
mater mteasure adfects this discrimination; and I refer duties.
to the indiret taxation by means of custom dute
The average amount of duties collected per annum for the 5 years, 1911 to 1915 , was about $\$ 92,000,000$
(Canada Year Book, 1914--p. 260). Of the total


Pro. attend the s small schools poorly attended, or to what they call the one institution that has been merely marking fashioned rural school.

The greatest difficulty in a Province like Ontario pettled and conservative in its ways, is opinion in favor of any change, which on the face of it, gives any evidence of increased outlay or to new. The fact is we dislike to spend the money, good enough for father and which he thinks is good enough for Johnny and Mary. In regard to this
financial side, which looms so large in the eyes of many people, we may say that the actual cost of consolidated
schools in Manitoba, in a great many cases, been found to be much greater than that of the old
one-roomed, rural school, and if value received for money spent is to be the test, as it certainly should
be, consolidated schools have proved to be much that the cost may be from one-fourth to one-third the following advantages outlined in a Manitoba Reduces tardiness. Better salaries paid.
Eliminates truancy.
Secures larger schools. about 16 per cent. The rate upon dutiable goods was
therefore approximately 25 per cent. For the most part the free goods consist of things not manufac-
tured in Canada. After making due allowance for
those manufactures which are unprotected by the tariff, the average protection afforded protected manul
factures therefore approaches 25 per cent. So far I have beon unable to discover the proportion of Cant
adian manufactures which is unprotected. It is impossible, also, to determine accurately just what en-
hancement of price is due to the tariff. I shall assume,
however, that the tariff causes an enhancement in prices of 20 per cent. on the average on goods manufactured in Canada. Anyone may challenge this assumption, but he must bring evidence to show where-


Fig. 1-White-hearts ' (Dicentra encullaria).
enhancement is. So far as the argument is concerned,
however, its nature is not altered by any numerical however, its nature is not altered by any numerical
change in this assumption. cbange in this assumption.
rhe next question is
consumption of articles manufactured in Canada? The average production for the last five years, as has
been shown already, may be taken as $\$ 1,400,000,000$ per annum. The value of Canadian manufactures exported during the last five years (making allowance for the recent jump due to munitions) may be taken as $\$ 45,000,000$ per annum (Canada Year Book, 1914p. 262). Allow an export of $\$ 50,000,000$ per annum, 000,000 worth of goods manufactured in Canada. With a price enhancement of 20 per cent. there is, therefore, an indirect tax of $\$ 270,000,000$ paid by the Canadian consumers to the Canadian manufacturers. The situation is therefore as follows:
Tax which goes into Federal Treasury..... $\$ \mathbf{9 2 , 0 0 0}, 000$ Tax which goes into opockets of the pro- $220,000,000$
tected manufacturers.................... 270,00,0 Total tax due to the tariff on Canadian $362,000,000$
This tax equals approximately $\$ 50$ per capita, or $\$ 250$ per annum per family of five. But the tariff tax on manufactured articles falls much more
heavily upon farmers and their families than upon heavily upon farmers and their families than upon
the average city resident. Both, it is true have to pay increased prices for clothing, tools, and housepay out annually large sums for farm implements, tools, vehicles, and machinery, which the average city worke escapes. A very conservative estimate would place the farmer as purchaser of fully twice as much
in the way of manufactured articles as the average in the way of manufactured articles as the average city worker. Assuming this figure of the tota
of $\$ 362,000,000$, agriculture bears two-thirds, or about
$\$ 240,000,000$, 714,000 $\$ 240,000,000$. This is divided between the 714,000
farmers (1911 Census), and figures out as close to $\$ 350$ per year per rural family. About one-quarter of this goes into the Federal treasury, and the other
three-quarters, or approximately $\$ 250$ per year, goes three-quarters, or approximately $\$ 250$ per year, goes
into the pockets of the protected manufacturers. The total amount thus diverted from agriculture to manufacturing is, therefore, about $\$ 180,000,000$ per annum (for the 714,000 farmers)
Now, if the reader will refer to Study VIII, he
will find Canadian manufacturing during 1910-1914 will find Canadian manufacturing during 1910-1914
credited with a surplus profit of $\$ 260,000,000$ per annum, while Canadian agriculture faces a deficit of $\$ 110,000,000$ per annum. Transfer the $\$ 180,000,000$ above mentioned, from manufacturing to agriculture Surplus profit in manufacturing
$.880,000,000$
$70,000,000$ Surplus profit in ageiculture
$70,000,000$
Comment is needles
Brant Co., Ont.
W. C. Good.

## Nature's Diary.

Two attractive plants now in bloom in our de-
ciduous woods are the White-hearts and the Squirelcornis The leaves of these two species are exactly
sum similar, but the difference in the fowers is clearly shown in our illustrations. The differnce in the
underground portions of these two species is even more underground portaions ot these two species of even moree
merked than that of their flowers- those of the White-
heant hearts consisting of clusters of little tubers, crowded together to form a bulb, while e those of the Squirrel-
corn consist of little rounded, yellow tubers resembling grains of corn. The names applied to these plants vary in different parts of the country. In some localities
the Whit-hearts ${ }^{\text {is }}$ called Dutchman's
Breches the White hearts is called Dutchman's Breeches,
in others it is termed Boys and Girls, while in some sections the White-hearts is, called "Boys" and the The "Spirit of the Northern Lakes" has returnedthe voice of the Loon rings out over their waters.
No sound is more characteristic of the stretches of our north country with its numberless lakes, big and little, and of ail imaginable shapeses than the cry of
this bird. The Loon spends its ife afooat, and in
swimming and diving it is not excelled by any bird, Its great webbed feet, with the powerful muscles on of speed. It can dive "like the water at a high rate under water can dive like a flash, and can swim instantly takes refuge distances, When pursued it rapidly for some distance, thrusts only its head swims the surface to take a breath, then dives again, and thus proceeds until it reaches a safe distance. The Loon is a strong flier once it is on the wing, but it must have a considerable space in which to
flap along the surface to enable it to rise. A friend flap along the surface to enable it to rise. A friend told me of two Loons which were kept in a larg not walk out, and though the top of the tank was perfectly open and the Loon's wings were in perfect order they could not fly away. They would shoot from one end of the tank to the other in endeavoring to rise, but could not get a long enough "start' This species makes its
nest either on the shore This species makes its nest either on the shore little island of vegetation in shallow water to place the nest on. The nests on the shore are sometime
mere hollows in the sand, and sometimes are lined with water-plants. The eggs are usually two in
number, though occasionally only one is laid. They are about the size of goose eggs, but somewhat nar-


Fig. 2-Squirrel-corn (Dicentra canadensis).
rower, and are rich olive-brown, more or less marked of incubation is about a month
The baby Loons are clothed in soft down, black above, white beneath. In a few hours they leave the nest, and are conducted out on to the lake by their
parents. Here their youth is spent in alternately swimming and riding on their parents' backs. The parents feed them on bits of fish and aquatic insects until they are old enough to forage for themselves, Loons are undoubtedly sociable birds, and are often seen in little parties of from three to eight playing a sort of game, half flying, half swimming, they dash over the smooth surface of the water at great
speed, forward and back, again and again. Then


Longforth King Cole.
several chase one of the party, which dashes away and suddenly plunges beneath the surface. On rethese games are accompanied by a great deal of noise. The Loon has two main calls-the shrill, laughing cry, and the even louder "Oo-hooooo." This latter signs does not really foretell what it is supposed to. though it also eats frogs, salamanders, leeches, and
fresh-water plants, and I found that one I examined recently had been eating a fresh-water Alga, included in its published menu. While the Loon often counted as being injurious to game and food fishes, its influence really is probably negligible, as it is certainly true that the best fishing is to be had on lakes where loons abound and men do not. broke as Mr. McIntosh, Provincial Entomologist of New Brunswick, reports that this species was seen in every county but one in that Province.

## THE HORSE.

## Lameness in Horses-XX

## Foot Punctures-Pricks in Shooing.

A "gathered nail" may pierce any part of the sole or frog, but it is probably most frequently found in one of the commissures of the frog (the hollow between the frog and the bar on each side). If the seat of puncture the heel and the point of the frog, and be deep, there in danger of the nail having penetrated the bursa of the navicular joint. The symptoms usually are well marked The horse goes suddenly lame, in many cases practically progressing on three legs, but in other cases the lamenes. is slight and in some cases, where the nail has not penetrated sufficiently deep to pierce the sensitive parts, no lameness is noticed, and no suspicion of the discovered by the groom when cleaning out the foot at the next grooming. This fact impresses upon ou minds the advisability of cleaning out the feet and looking for nails, stones, etc,, at each grooming. In a case such as stated the presence of the nail would be detected and its extraction would prevent trouble while if not noticed and extracted there would be danger
of it penetrating farther if the animal stepped upon a stone or other hard substance, at the seat of puncture Trealment.-So soon as the horse is noticed goin lame, the driver or rider should dismount and carefully examine the lame foot. In some cases the animal may have trodden upon a nail that is somewhat firmly fixed. The horse suddenly lifts his foot which pull away from the nail but the horse will go lame all the
same. In such a case the examiner, of course, will not see any nail, and on account of the elasticity of the horny sole, there will be no hole to mark the seat of puncture as the opening through the sole will have closed as soon as the foot was drawn away from the nail. In some cases there will be a few drops of blood to indicate the trouble, but where this is not the case
the examiner is at a loss to know definitely what caused lameness. In these cases the horse may or may not continue to go lame at the time. When the natl in such cases, has been clean and has not penetrated sufficiently deep to draw blood no untoward result are likely to follow, but if foreign matter has been left in the wound or blood has been drawn, lameness wil days. When the nail be present it must be extracted This can sometimes be done with the fingers, but in many and a pincers or claw fham mer is necessary to remov it. If the examiner has not the necessary means of re-
moval the should allow the horse to stand until he can procure it, as, if he drives o rides, or leads him, it is probable that the nail will be forced farther in, hence blood appears when the nail extracted and the horse goes sound it is probable
that no further treatment will be necessary, but if there be blood, or if from the evident depth of puncture, the wounsitive parts have been will be necessary. Even though no blood should appear, if foreign matter has tive parts wounded, pus will form and cause lameness and an opening will have to be made through the sole for it
escape. Hence the seat of puncture should be carefully noted and after the horse has reached the stable, his shoe should be removed and with a shoeing-smith's knife a free opening made through the sole to allow escape of clotted blood and other foreign matter. The wound sive per cent. solution of carbolic acid or one of the coal-tar antiseptics, and either a poultice of warm linseed meal applied, or the wound filled with a dry dressing, as one part iodoform to four parts boracic acid, and a boot or wrapping put prefers the dry dressing. The wound should be dressed in this manner twice daily until lameness disappears

THE FARMER'S ADVOCATE:
In some cases a fungoid-looking bulging takes place in the wound. This is simply a swelling of the sensitive
sole. will disappear when the inflammation is al lanyed, hence caustics should not be used. When lameness has disappeared and the discharge has ceased, the opening should be filled with hot tar and tow, a leather sole put on to prevent entrance of foreign matcer into
the wound, and a shoe put on. As foot punctures of the wound, and a shoe put on. As toot punctures of any is generally wise to get a veterinarian to give the animal an immunitive dose of anti-tetanic serum. When lameness occurs after an apparently harmless puncture, the seat of puncture must be located, an opening mat.

Pricks, or punctures in shoeing are of two kinds, riz, those actually penetrating the sensitive structures sensitive parts are driven so near as to cause bulging of the inner layer of horn and pressure upon the sensitive interior, leading to inflammation and lameness, with suppuration: Many cases of lameness follow what are termed drawn nails; that is, the smith, finding that his nail has gone too near or even penetrated the sensitive parts, draws it out and hrives When the sensitive parts are punctured lameness is usually notic
in other cases it will appear in a few days.
Treatment consists in locating and extracting the offending nail and treating as for other punctures. To locate the seat of puncture of any kind, it is often aecessary to remove the shoe, then examiers. When the seat of trouble is pressed upon, the animal wincing and evince pain by drawing should be taken to avoid bleeding if possible, as this renders it more difficult to follow 2 spot of discoloration to its termination. When suppuration in the foot occurs ifrom puncture or other causes, and an exit be not made through the sole, the pus burrows upwards between the sensitive and whi sensitive know as quittor, which we may discuss in a later
WHIF.

## LIVE STOCK.

Dangers from Pasturing and How to Avoid Them.
When live stock is first turned to grass in the
 diseases may attack the animal and result in decreased gains, in a diminution of the mil weather becomes in dement and vegetation is touched by frost, digestive troubles are not uncommon and further losses are sustained. pasture season is one long period of disease and misyear when herbivorous animals are so free from ail year when as when living according to nature's plan on
ments nature's provision. But it must be remembered that horses, cattle and sheep are usuang to man's way, which is not always the best way. Under mos fied to conform to the environments and feeds prorespiratory and circulatory systems are not normal, th vitality and ruggedness are grass; there is often a sudspring they are turned to grass; there is often a sud-
den change in the character of the feed, conditions are different, and live stock almost always, at least
loee in weight until they become lose in weins. Frequently the pasturing animal suffers from infection of some sort, which has harbored in
the soil, and this form of contagion is indeed difficult the soil, and
to combat.
A stockman may enjoy several seasons' freedom
from misfortunes of this kind, but there are few who can claim absolute immunity from them. It is well every regard, and furthermore he is wise who is pre pared to meet them when they do apear. Atrot-fared than does the animal wintered on a
better prepar
ration. lacking in succulent feed. The digestive tract in such a case and the bowels are more likely
sffect of such fodder, and
move normally. A cattle beast which has been fed ior months on dry roughage will often suffer from
severe purgation on its frrst fill of green, sappy grass, and even though the animal survive, there will be a man can very well afford. This phase of the matter
must be considered during the seeding, in order that the proper crops may er grown for the succeecting
winter's feeding. A few of the dangers incident to
Ander consideration at this tinne, for live tock must soon go out to grass. Let us study them n turn. Bloat. A common disease of ruminants on grass, as well
As elsewhere, is bloat. A fruitful cause of this ailment
in cattle is green feed of various kinds, as clover in cattle is green feed of various kinds, as clover
or grass, turnip tops, rape, etc., especially when
orte in a frosted or wet condition. This is particu-

of feed that ferments easily if taken in sufficient quantities, is liable to cause an attack, as will sudden changes of fodder. It is these condition that renders conduce to a disease, frequently aversight when the stock first go o Treatment in this case must be directed either to eliminate or neutralize the excess of gases and prevent their generation. 4 ounces of oil of turpentine ministration of 2 to 4 ounces olted butter or lard, in a pint of raw ilinseed gill give relief in from thirty minutes to one hour. When no drugs are at hand,
one-half cupful of baking soda or two tablespoons of carbonate of ammonia given in a pint of warm water, are often effective. It is also good practice to tie a stick or piece of large rope in the patient's morth, hose can often be used as a probary and passed down the gullet to the stomach of the patient. If the end of the probary does not happen to lodge in the solids contained in the stomach, gas will pass off.
When a probary or instrument of this kind is used it will be necessary to insert a gag, , having a hole through its centre, in the patients mond of prevent injury. When drugs fail to give relief, and death is likely to occur in a short time from results incident to bloating, the general practice is to resort to the trocar and canula with which the rumen is punctured, and the gas allowed to escape. This instrument, now quite
commonly known, consists of a pointed spike about commonly known, consist into a metal tube one-quarter six inches long which dits into a metar tabe one-quarter
to one-half inch in diameter. They are stabbed into the rumen at the most prominent point, which is usually halfway between the point of the hip and the last rib. The spike is withdrawn and the tube is allowed to remain in place while the gas buns ofed
After this the tube is removed and the wound treated with a disinfectant daily until it is healed. It is usually well, after recovery, to administer a purgative
of one to two pounds Epsom salts, and feed lightly for a few days in order that the stomach may regain its tone. The trocar and canula should be in every stable, or in some convenient place, for it is frequently
required on a stock farm, and anyone with good judgment can use
Preventive
Preventive measures should be taken in order to
ward off attacks. Give the animal a good fill prior ward off attacks. Give the animal a good fill prior
to being turned on to grass or clover, and introduce them to the pasture when it is dry. If convenient
it is well to have a small stack of dry hay or straw accessible to the stock. They relish it when their
feed is sappy, it dulls their appetites, and absorbs the excessive moisture of the watery outdoor rations.

## Inflammation of the Lungs. Exposure to cold while the animal is yet warm or hot often results in inflammation. When the herd is driven any distance to pasture they should be given

 time so as not to arrive in a heated condition, for a once in the field. A dry spot is not always selected either, as a cold, damp place is more comfortablefor the beast with a high temperature. An attack of inflammation is first evidenced by the shiver-
ing of the animal, and then a fevered condition The patient is hot, then cold; the pulse quickens, ranging from 60 to 80 beats per minute. The animal
does not eat, stands up much of the time with head dropped, and the ears lopping. Constipation follows, 105 degrees. The patient should be made as comfortable as
possible, and well blanketed, while the legs should be rubbed and bandaged. A veterinarian should be called to advise and treat, for the disease is frequently
fatal and requires professional attention.

Indigestion.
Sometimes on account of an abundance of old,
dry grass, and the cold, wet nature of their rations dry grass, and the cold, wet nature of their rations
in the spring, cattle suffer from attacks of indigestion;
sometimes the digestive system is in dition, and the wet, dewy grass will cause trouble
If If bloating results administer the oil of turpentine
as advised for bloat and follow with a tonic, consisting of one dram each of sulphate of iron, genstian,
ginger and nux vomica, two or three times daily. ginger and nux vomica, two or three times daily.
In the trouble persists it will be necessary to remove
the patient from the grass field and fed on good clover
hay, roots and bran, until recovery is permanent.

## Cattle are not infrequently afflicted with sore feet that are a great detriment to thrift and gain. The

 in the foot. It occurs in the fore and hind feet,chiefl., however, in the latter, and the patient suffers
consideralle pain. Often the animal will not the foot on the ground, and severe lameness is the
result. The legs swell, the feet break out between or above the clouts and discharge a fetid matter. Veter-
inarians clainn it is caused by standing in, or walking
through irritating substances, such as liquid manure, swampy land, rushes, etc. . When the barnyare,
are tad in the spring foul in the foot is liable to
occur but we have seldoml seen ? when stock is often standing in manure in the stabler
The circumstances connected with most cases indi-
cate that the contributing causes are found chiefly cate that the contributing causes are found chiefly
in the soil, and perhaps these are vitalized or made
more vigorous when coming in contact with manure,
or liquid manure. It is also apparent that cattle coming to the yard or stable daily are more subjec to attacks than those members of the herd which remain afield. It is not a common ailment in catte beasts which are pastured on dry uplands, but when
the animals are obliged to cross through swame or subsist on the vegetation of low-lying land, out breaks are not uncommon.
It is not easy to correct the conditions on a farm or pasture field which contribute to the attacks of
foul in the foot. However, if the live sted foul in the foot. However, if the live stock can $b$ admitted to the stable without being obliged to wallow through the deep mire of a dirty barnyard, it migh
prevent some casualties. If it is apparent that swamp or low-lying piece of land in the -atur is inimical to the health of the herd, it could be isolated from the remainder of the field by fencing. Besider taking the precautions mentioned, little can be done to prevent cases of this trouble. It is obvious, however, that it will not be wise to rent pasture in a fielo that has maintained diseased animals, not that the ail ment is contagious in the general sense of the word
but because the soil or surroundings are probably such that further outbreaks are likely. The remedy for foul in the foot is simple, but recovery is often slom The first move is to put the animal into clean, dry quarters, or into a dry pasture field, and cleanse between the clouts by bathing with warm water. Then apply hot linseed poultices until the acute sore daily, a fairly strong solution of some good disinfectant daily, a fairly strong solution of some good disinfectant.
If proud flesh forms apply butter of antimony, once daily with a feather, for two or three days. Some times it is necessary to cut away a part of the hool to allow t

Black Quarter or Blackleg.
Black quarter or blackleg, as it is sometime known, is the cause of considerable loss in Ontario by a parasite which lives and propagates in the soil of infected districts and the bodies of diseased animals. One affected animal will not transmit the disease directly to another. It usually gains entrance to the system by entering a wound in the skin, or mucou membrane of the body, or at the mouth while grazing Animals ov iseased areas recourse is had to a vaccine distributed by manufacturing chemists, and by the Veterinary Director General's Department, at Ottawa. A suspected case of black quarter should be at once of his representatives, require organized efforts to combat them. In som
counties of Ontario, quantities of vaccine are being counties of Ontario, quantities of vaccine are procured this spring with which hundreds of young cattle will be treated. It would be well to have al can be practiced before it is too late. The disease is characterised by the appearance of large swelling upper portions of the legs, and never below the hock or knee joints. These swellings vary
are formed by the presence of gas collected in the are formed by the presence of gas collected a passed
tissue beneath the skin. When the hand is pal an usually these swellings a peculiar cracking they em a bloody fluid possessing a disagreeable and sickening odor.

Pasturing Swine to Reduce Costs.
Hog prices swing like the pendulum, sometimes One side, sometimes to the otherer One vibration
 way, as many will still remember. If one had stocked up two years ago and had managed carefully in the to the swine, for the trend in prices has been upwards. To disperse the herd in 1914 and re-stock in 1916 dabble with pigs. Too many dabble in when prices are high and dabble out when they are low, henty,
the fluctuation in prices. A man in Lambton County Ontario, who keeps two or three brood sows every year recently said to the writer: "There are not keep a few." This system would do away with the speculating or gambling element associated with hog money is made out of hogs by those who keep a few brood sows annually whether the price of pork
high or low. If they make additions it is usually during a depression, in order to be in on
floor when the next peak in prices recurs, and the
experiences of the last quarter century show that good experiences of the last quarter century show that good
prices follow bad prices, or bad follow good, whichConditions influencing the present high prices are somewhat abnormal, and no one knows how long
they will exist. So long as the war continues prices will probably remain high, and perhaps after the con-
clusion of the conflict there will be such a demand for breeding stock in the war-devastated countries or
Europe that the demand will still be keen. However, no one has the conceit or the audacity to predict
hog prices in 1917 or in 1918. The proper-method to pursue is to keep one, two or three brood sows on
every farm, and to keep them and their get in such a way as to make good bacon hogs at the least possible
cost. This necessitates some feasible means of pasture
that grass, cl making gains. and this is o ever, a numb
that grass, clover or rape help to reduce the cost of making gains. From thirty to forty-five hogs should
be turned off annually from two or three females and this is only an average of fifteen for each dan per year, which is low for a good breeding sow. How door run on grass, or an outdoor yard with gree feed fed according to the soiling method
There is a lack of system about pig raising on many farms. It is not looked upon as an important branch, and its management is more haphazard than that of the catcle herd. tied up in breeding swine and equipment as in the
case of cattle or horses, but the details should be just as carefully studied, for the rent or interest, and taxes, are rrequently paid from the hog cheque What is required is a specific interest in the production of pigs accompanied by a well-thought-out practice of breeding and rearing, and attention to all the details of feeding and managing. If the business were studied farmers would see the advantage of keeping
their breeding stock up to strength all the time, and with proper methods of breeding and rearing they would not be feeding at a loss when prices were low, and when prices were high there would be a fair profit

## Advantages of Pasturing.

The advisability of pasturing is based on conditions or facts. In the first place the breeding stock in contact with clean soil and plenty of vegetation. A pregnant sow which runs on grass up to farrowing should be in first-class condition to deliver a healthy litter of pigs. There is no place superior to a pasture with a portable pen for a farrowing sow. If they
are fed wisely and sufficiently, there appears to be onsiderable luck connected with pregnant sows when they have the freedom of a pasture field, and can derive from the soil itself those substances that satisfy the cravings of the animal system. Exercise and abundance of green feed are conducive to thrift in young pigs. They develop bone and muscle, so when the finishing period approaches they have a
frame to add to, which tends to cheaper gains. The quality of bacon produced in this manner is of the best, so no raiser of swine need worry regarding for sale. It is claimed by those who have adopted the system, and by experimentalists, that grass or forage crops reduce the amount of grain required to produce 100 pounds of pork. This is an important
item, and a factor that should be remembered by those who pay any appreciable attention to the hog in their farming operations. Additional words in favor of pasturing are seemingly unnecessary, for it is felt
that the practice is generally considered a good one. that the practice is generally considered a good one
The extra or initial labor involved is an influencing factor governing the extent of its adoption. Thes are not insurmountable obstacles, however, in such a

## Pasture Crops.

Alfalfa is almost universally conceded to be the best pasture crop for swine, provided it will stand in and even when cut for hay it often succumbs to the inclement winter weather. When it can be grown successfully there is nothing better than alfalfa on which to run a herd of swine. The stock should not be allowed on it too early in the spring, neither thuld it be allowed to get too far advanced, for
then it will become woody and unpalatable. The then it will become woody and unpalatable. The
hogs will relish it almost anytime up to the blossom stage. As a perennial crop this type of legume is supreme in its effect on the herd, but it is not the most popular crop on account of reasons already Among the biennials red clover receives the majority 2hootes. It can, if managed wisely, be made to serve mas ficrs. As with most crops, it often become
pasted close, and should be allowed sufficient tion axecoperate and grow up again. A portable temporary fence to divide the field will solve this probtem. The system recommended by Prof. G. E
Day, of the O. A. C., is very commendable: The method is thus: - Sow a field or strip near the building oo oats or barley, early in the spring, and seed to red pounds per acre. Cut the grain for green feed, or which will grow up rapidly, about the middle of July Fifteen or twenty pigs can be pastured per acre on his seeding. and clover, but this requires previous preparation 10 pounds was sown in the fall. The next spring was given two or more harrowings. The season was avorable and the rye furnished abundance of pasture,
and there was a fine stand of clover. In August
the herd the herd was changed to another field to preven the clover being destroyed by pasturing too closely.
On this occasion the one seeding lasted for two years. In another instance the tramping of the hogs destroyed
the clover, but could be harvested and the stock turned on tater It would not be a mistake altogether to sow red clover without a nurse crop on a small field near the piggery,
and turn the hogs on when it became ready, but an annual, such as rape, is more adapted for speedy
growth and Of the annuals use. is perhaps the most popular
as a hog pasture. It can be sown either broadcast
or in drills and cultivated. The latter method is preferable under most conditions, for the pigs do not it along in much and the occasional cultivation will force sow from $2 \frac{1}{2}$ to to 3 pounds of a good seed-bed and drills 24 to 28 inches pounds of Dwarf Essex rape, in practice of pasturing his swine, recently told the writer that he has narrowed his drills to 21 inches and finds it satisfactory. About 5 pounds should be good coat of manure will hel For the first season quent applications should not be tequired if the fiel is pastured. Rape should be allowed to attain to


## Making Pork on Grain and Grass

10 or 12 inches in height before admitting the stock vet, on the other hand, it should not become coarse two fields can he used to a permanent fence betwee ing system. By alternating the herd between the two lots, neither crop will be destroyed by excessive tramping or grazing
Expome experiments were conducted at the Missouri Experiment Station to determine the value of different forage crops for hogs. Corn was used chiefly as grain, and according to Missouri valuations the dir-
ferent feeds ranked as follows: corn and skimmilk, cheapest. corn and aflalfa, second, corn and red


Farrowing Pens for Sows on Pasture.
clover, third; corn and blue grass, fourth; corn and rape, fifth; corn and ship stuff, sixth. A saving of
75 cents a hundred in the cost of grain was effected by using green clover instead of fresh blue grass. A saving of $\$ 1.00$ a hundred was effected by using alfalfa instead of blue grass. The investigators recommended
hog pasture

## Turning to Pasture

Some farmers are so partial to grazing hogs that the sows and their litters are turned out early in
the season and are obliged to spend the entire summer
in the fields. Where plenty of pasturage is available this may work to advantage, but in many cases the supply is not adequate, so it is wise to develop the
young pigs in the pens for some time. Prof. Day advises confining the young hogs till they weigh in the vicinity of 100 pounds, and then turning to grass with from $1 / 2$ to $3 / 4$ of a full meal ration.
Grass is good but it is not sufficient to produce adequate gains. Some meal is necessary, and the grass should be considered as an adjunct to the regular

Fatalities from Ptomaine Poisoning. The attention of "The Farmer's Advocate" has in Western Ontario herds from eating defective, frozen silage scraped down from silo walls or from feeding old silage held over from the previous season. An appearunthriftiness with harsh, staring collowed by purging and brain affection ending, keeping out of the mangers feed of an unwholesome nature, or decayed fodder of any kind.

## Rise in Live Stock Prices.

Without the occurrence of the great world war upsetting all human forecasts and-calculations as to food supplies and prices, it has been long regarded
as inevitable because of the actual and relatively as inevitable because of the actual and relatively
diminishing supplies of live stock, that a higher level diminishing supplies of live stock, that a higher leve reflected in the higher cost of living, felt more teent in the cities and towns, though in like manner affects the bills of the country home. There mue now be an enormous falling off in the live-stock pro duction of all Kuropean countries in proportion as they are involved in this conflict. The demand on animal products for army maintenance is some thing enormous. Few know or realize yet to wha company of Canadian and Americans, projected in Toronto, had their calculations based to begin with on a contract for no lese than $12,000,000$ cans of meat and vegetable ratior. Not only is the consump tion vast, but the probably unavoidable waste is very great, The absence of a man or two from a hom and money as yet being in plentiful circulation the domestic buying goes on about as freely as ever so that the extra call is evidently immense. Then these army and other contracts have to be filled with rapidity and regularity, so that the demand is unprecedented, the money is forthcoming, and with matter supplies of live animals prices have been bound to rise with startling rapidity. This has been reflected in the course of the hog market by quotations never before equalled in Canada, and this has been followed to some extent in the cattle market. Sheep and
lambs never sold higher, and veal sells

Notwithstanding the absence of foreign competition at the great London wool sales recently, prices at the trend must continue in that direction for a long time to come and that even the end of the war would not serve to bring about reductions. The flock owner will likewise le paying more for his clothing.

## THE FARM.

## The Automo-

 bile on the Farm.
## The automobile has

 come to the farm to stay. Only a few years ago these "gas wagons", as they were commonly called, were believed to have been created simply to give increased pleasure to the rich, and to allow them to race thinough the country destroying roads, righteninghorses which in some instances caused loss of life. Perhaps there was a reason for the farmer and his family detesting the sight of a car. off the road he had labored hard to build, by reckless, inconsiderate chauffeurs, who knew not what
it was to handle a frightened horse or build roads, was enough to raise the ire of the most patient man. The fault was in the driver, not the car. However, customs, likes and disikes change rapidly in this twentieth century. The once-despised automobile has won its way
into the heart of rural Canada. The automobile is no longer an experiment it has been thoroughly tested and has proven that it is capable of being' an asset to the farm if properly used. It has become indispensable to the city business man, and present indications point to the fact that it is also indispensable on many_farms
which is exposed at the river and is nowhere very far down is lava, black and porous at the surface, but solid a fen feestward over the wide plain one sees, 30 or 40 miles of solitary mountain with a double peak breaking the horizon line. Local tradition says that this is a volcano and that it smoked recently. But geologists tell uis that not from the west but from the northwest the lava flowed. From two volcanoes in Yellowstone rock, which now forms the foundation bed of this wide rock, which now forms the foundation bed of this wide easily worked, and absolutely without a subsoil as we understand that term, being of just the same color and texture three feet down as at the surface. Originally the only vegetation was a large species of sage brush which grew to a height of four or five feet. At the present time in the district visited, no sage brush is to be seen except in the wastivated.
On the higher portions which cannot be reached y present irrigation plants, grain crops, mostly wheat, penses and the quality of the grain is excellent. Farm are large, one visited being of 10,00 n acres and the grain is harvested by great machines which head and threeh at the, one operation as in California. The system of farming followed is extremely simple. If not grain about.

But for miles on either side of the river irrigation is practised, the water being diverted from the stream into canals, at a point of a much higher level and miles
way. From these canals smaller streams are led off in various directions and these again diverge into ditches which run along roadsides, flow across the
head of fields and wherever wanted. Irrigation there head of fields and wherever wanted. Irrigation there mystery. Like the Scotchman in France to whom the greatest wonder was that even the children talked French, it was a surprise to hear two little girls speaking in a matter-of-fact way about a sluggish trickle of water at
the roadside as "Mr. Blank's sugar beet ditch." One neets there a man on horseback with a shovel over his shoulder riding along the roads and going in and out official indeed. He is in charge of a section of irrigated territory goes his round every day to see that all is right and to him application for water for any field and date has to be made.

Dams are built across ditches of all sizes at the
oper places so that the water may be held up to the proper places so that the water may be held up to the entare for the fields adjoining. Thus in going about among the farms the splash is heard on every hand. This makes the country originally desert, seem more abundantly watered than ours where the necessary moisture is distilled from the clouds of heaven. In many respects the section of Idaho visited resembles Ontario. As for anstance in the kinds of farm crops, wheat, oats a airying and the swine industry hold, in orchard culture, the attention given to shade trees and even in the foothold that sweet clover has secured on the roadsides, partic In view of the prominence given of late to the necessary taking of men's place and work by women it may be pertinent to report some facts regarding three women farmers of Idaho, learned at first hand. These three are sisters and though brought up on a farm, were a in a large western city. Unmarried, they lived together and doubtless had a good time. Whe worman's
failing health or from some other inscrutable womat reason they, having duly prospected several neighborhoods, bought a farm in Idaho and promptly went to live on it and work it. Instead of the pen they they occupied at stated times a more lowly specimen with three legs whose place, when in use, is close to the evers success. One point in favor of such a life for then is that public opinion there did not view it with critical outdoor work to help her husband is thought nothing of. It is there as it used to be here sixty or eighty years ago. These young women have had a busy and
no doubt, but from both the financial standpoint and that of health they have succeeded. They milk eighteen cows before breakfast and, as they said, have no such lack of appetite as used to make that meal a mere
pretence. And with this improvement in financial and physical lines the mental powers seem they have fullest exercise instead of being dulled. They have
had their full share of the difficulties incident to new had their full share of the difficulties incident to new
undertakings. A recital of their experiences in one line may best illustrate the spirit with which troubles have been faced. Alfalfa has been mentioned as one of the principal crops of the irrigated section. It is indeed practically the one hay and pasture plant of the region. While no risk is involved in its use as hay, it is different very liable to bloat dangerously. These women farmers, when such cases occurred, tried giving soda, turpentine, tying a stick in the cattle's mouths, and everything, ase their own words, yet they lost several cases in structions. The need for its use came only too soon.
The one of the trio who had the best head for mechanics, and possibly the steadiest nerves prepared to plunge he trocar into the distressed animal, the others un doubtedly being very sympathetic "rooters" Buth;
wouldn't plunge. The skin seemed unnaturally tough;
then she thought of the hammer. But the harder she

Many inventions have been perfected in the past
that have directly aided in taking the drudgery out of farm have difecty mail delivery and the telephone hav done a good deal in bringing the rural districts in close connection with these conveniences will banish lonelines and solation. Agricultural it possible for the farmer and his family to mingle with humanity outside their own small community, may pay bis dividends, maybe not in cold cash but in the renewed health and vigor of the owner and hi family. Some may say that the tiler or work and it is plis bed he should go rather than joy-riding when the day's toil is over. True, he may be tired, but a few miles "spin" in a car will rest both mind and body an the privilege of seeing what is being disk about and pu into practice on his own farm. After a chat with a neig, bor or friend, and seeing his wife return to their home orth faction with their own place, or a determination prove home surroundings. No matter what bus ness a man is engaged in, it is necessary for him to
mingle with men whose work and interests are similar in order that he may make the greatest possible suc bes the line fence surrounding his propert ecomes very narrow-minded. A car takes its owner nlarges the horizon of their life.
On every farm there is a certain amount of running around" to be done and a driver must may be used for driving in the winter. A car saves the ise muidly. Hardly a week passes but me must go market for supplies, or to deliver produce. Frequently cream or milk is shipped from th epot or delivered at a creamery. A car may often be sed for this and those who use the have a day we equired for this work it can now be done in less than our. If a man's time is worth 20 cents an hour the aving in a single season can be estımated. Stockmen to fill their stables, or buying pure-bred animals. car covers the distance quickly and easily. Fruitmen market and quick delivery is necessary. The custom has been for these men to locate close to a marin the consumer. Land naturally rises in value in such istricts and the interest on investmeni is increased. growing fruit and vegetables, and by the fresh condition as the produce grown on the higherpriced land close to a big market. A trailer may be ny kind of freight may be carried without scratching or injuring the car in anyway. On large farms motor trucks are coming into use, as experiments horse power However, the motor truck will never come into general the separator, churn, pulper, cutting box, circular
etc., but they were never intended for this work.
Once an automobile has been in use for a few months on a farm, the general verdict is, "We don't know how transit which results in it being a time saver, and time is money. This is especially true if a part of an implement Work ceases, but the laborer's pay goes on while the between town and needed repairs is quickly covered. It is difficult to estimate the cash value of rapid transit a car may be used on a farm, and it has been noticed that where cars are owned in the country, greater interest
and enthusiasm is shown in fixing up the roads, which not only benefits car owners but the whole travelling public, and indirectly increases the assets of the country. girls on the farm are frequently quoted as the farmer's most difficult problems. Perhaps the auto may help solve them. If it does not make farm life more attractive
to the "hired man", it certainly is a help to the employer in case of emergency or rush of work. Day
laborers can usually be secured in the nearby town, provided they can get home at nights. By means of In case of the boy and girl of the farm, some of them are required in the city and on the highways of commerce,
but many who are in the city would make better citizens and more useful men and women were they back on will be a means of retaining the country-bred boys and girls on the farms. Its use, at least, makes life in the many to the farm that would otherwise leave. In-
dustrially, economically, and socially the life of the ountry is being revolutionized by the motor car. It It requires considerable cash to purchase an automobile, and gasoline, orls, looked after and carefully motor car permits of getting in touch with people
and places that would be unthought of without its
use; it gives every member of the family a broad vision and a new interest in life. True its use can it badly abused, but if a car is pur
master; do not let it master you.

## A Week in Idaho

Snake River, Idaho
and pulse with interest and been one of the left-overs. Settlement pro westward mostly, but it also moved from the Pacific and Dakota had been peopled from the east, there stil remained the semi-arid territory of Montana stretching west to the Rocky Mountains. On the Pacific slope, atte turned to the more enduring rewards of agriculture it became known that a rich country lay to the north up with emigrants. The eastern boundary of thes


An Idaho Stacker at Work
tates rumning from California to British Columbia is a
traight north and south line. The area between this line and the Rocky Mountains (which are the western
boundaries of Montana) constitutes the State of Idaho As the course of the Rocky Mountain chain is her
strongly northwest the State, which is of fair width at he southern end, narrows almost to a point at the The part of the State visited is in the Snake River
Valley, within sight of the Rockies to the cast, and 220 miles due north of Salt Lake (ity: The valley is
probably forty miles in width almost level, being only lightly depressed in the middle, and of an average is much the same as that of Ontario but the rainfall is
very deficient, and, in summer, nil. The underlying rock,
struck with the hammer the higher the trocar bounced. In the end she made an incision in the skin with a sharp center was pulled out, the tube stayed in place, the gas blew off and the cow was saved. After that first case the instrument was used without hesitation, and, strange to say, without difficulty. In one day, their big day,
they punctured six. Prevention in the way of shorter pasture and more hay fed in summer has much reduced the need for such home surgery but they still keep the trocar ready

When these girls first began to farm about five years ago, they worked the whole eighty acre place, hiring a man to help them keep up with the work, the (It ought to be said here that one of them is a school teacher and is home only during holidays.) But for on shares to a young man, retaining only the pasture on shares to a young man, retaining only the pasture
land and the stock for themselves. They find this ightens their work and care. The young man keeps batch in a shack on the place, has a good team and is at hand when a job like taking a load of live hogs to the station or such like has to be done. If no such help wheir stock when seen leven calves that were being fed milk, some young stock bet ween these ages including a Jersey bull, seventyive hogs big and little and a team of horses. They ake cream and milk every day to a town two miles distant having as customers restaurants, confectioners, playing at farming, they are into the real thing.
No aho
No one who has not seen it with his own eyes could might be told of the magnificent crops grown under irrigation. How does this sound?-Land to be deoted to potatoes brings a cash yearly rental in the Snake River Valley of $\$ 11$ per acre. An ordinary crop of spring wheat there yields fifty bushels per acre.
One farmer stated that in 1914 his average per acre or his whole spring wheat crop was sixty-five bushels. Yet any practical farmer think of questioning the statement. When it comes o the growing of alfalfa those dry countries where water can be obtained at will have all others beaten ompletely. That plant delights in a dry deep underullest growth and his a sumiciency of moisture for is specially in the curing be applied as needed. But summer climate excels. In the accompanying illustra tion of the stacker it is alfalfa hay that is being handled. The farmer who is seen holding the trip rope said that it had been cut eight days before hauling and raked and bunched (not cocked) the same day. It had not fallen and it was in perfect condition without a trace of discoloration even in the part that rested on the ground. as a triangular frame of round cedar logs lying flo on the earth which supports the mast and on which may be hauled from place to place. By means of a a slight incline towards the centre of the stack. By this means the moveable arm, which holds up the forkful or slingful, of itself swings to the right spot after it has risen above the level to which the stack has been built. The mast is further stayed with guy In view of the possibilities as to crop production in that part of the State and in spite of the fact that it is remote from markets, it will be no surprise to hear away above what prevails in Ontario recently settled the modern conveniences of rural mail delivery and rural telephones are enjoyed by Ider percentage than with us. nountainous and rocky. Free homestead rough State, secured in some parts, which probably would be yet be no more than they cost. But wonders have been wrought in that territory so long avoided by settlers.
to an Easterner. But it is impossible to praise too highly the Yankee enterprise and industry which have Middlesex County,

## We Can Get What We Want.

## Editor "The Farmer's Advocate

'I wis lookin' over a magazine a while back, 'an' me how I could get what I wanted, na maitter what it was. Gin I wad send them ten cents they wad tae get ene secret. I thocht maybe it wis some trick a chance onyway. 'There's an unco' number o' things I'm wantin', an' gin I can find oot hoo tae get them I sent alang ma dime an' in a few days I got the wee sent alang ma dime an in a few days I got the wee an' plenty $\mathrm{o}^{\prime}$ money. It turned oot tae be no' exactly what I expectit, but though it didna' tell me where 1 could find siller for the pickin' up, it explained how a mon micht get some things worth haein', gin he were willin' tae exert himsel' tae a certain extent.
It sounds unco' reasonable tae me, but I think I'li It sounds unco' reasonable tae me, but I think I'll
juist repeat a few $\mathrm{o}^{\prime}$ the points an' argyments that juist repeat a few $o^{\prime}$ the points an' argyments that
they mak' use o o' tae prove that they can mak' onything o' ye frae a mon tae a millionaire. In the first place the wee book says that "the cause o' success is always in the person wha succeeds.", Na doot this is true, for na maitter what kind o' a hole ye pit
some men intae they'll climb oot, an' ithers again that some men intae they'll climb oot, an' ithers again that ye'd think got a pretty fair start in life keep slidin'
doon hill as fast as their friends can pull them up. An' they generally hit the bottom in the end in spite "since all minds contain the book gaes on tae say possible for ony mon tae succeed. The difference in men is juist that these faculties are mair highly
developed in some than in ithers. $\mathrm{An}^{\prime}$ a mon can developed in some than in ithers. An a mon can this is develop ony faculty that he possesses. on the reader's mind mair than onything. the frest that he can dae what he wants tae dae. When we ken for certain that this is possible for us we are on the straight road tae success. It's doubting his ain ability tae get rich that keeps the poor mon poor,
mair than half the time. A' his efforts are halfhearted because o' his state o' mind.
The next thing, according tae the book, noo that we ken that success is possible for us is tae that in the richt way. An' this is what it thinks is the richt way. To mak' use o, the abilities that ye are possessed o' at the present time. An' the mair per-
fectly ye use them the faster ye will get ahead, an' fectly ye use them the faster ye will
the sooner ye will get what ye want.
the sooner it a' amounts tae this, that we must oor fife an dae oor wark to-day in the best way we ken how, an the meenute we become perfect in ony line o' wark or get tae mair than fill the place we're in, that meenute the chance for something better an' frae what I hae observed it's the secret $o^{\prime}$ getting tae the top $o^{\prime}$ the ladder, or, as the wee book says, "o gettin' what ye want." This brings tae ma mind $a n^{\prime}$ when ye can get an illustration frae real life it's generally mair convincing than a' the theories ye can be thinkin' oot. There was twa brithers that used tae live not far frae ma hame when 1 wis a young chap, an' twa men mair different. in their natures
never met or heard tell aboot. The auldest, Duncan by name, wis ane o' these men that hae a guid conceit ${ }^{\text {o }}$ ' themselves, as the sayin' is, an' whatever he had an' whatever he did was always the best thing hee
could possibly have or dae. He wis what ye wad ca, a real optimist. I mind one day he had a loggin' bee or somethin' $o^{\prime}$ the kind, an' at noon he cam their aits, an' says he "gie them plenty, boys, there's their aits, an says he, gie them plenty, boys, theres
na poverty here." We had oor laugh when he wis gone, but at the same time we kenned weel that it
wis that same spirit o' pride an' hopefulness that had
helped tae pit him as far on as he wis., When he on it farm first there wis juist a wee bit o' a clearin' On it, o' maybe five or six acres an' a sma' log hoose. that he wad be weel aff an' comfortabler coubted an' he proved he wis richt in the end. He is no livin' to-day, but the farm is there, cleared, weelfenced, an' wi' a braw hoose an' barns on it tae show that a mon can get what he wants by beleivin' in himsel' an' showin' his faith by his warks. He was a guid example o' what oor wee book said aboot the succeed success bein always in the person wha succeeds.
Noo, as 1 said, his brither wis a different sort $0^{\circ}$ for he wad aye be was weel liked by his neebors, rinnin' doon what he had himsel. What When his feyther died he left him the hame place, $a^{\prime}$, cleared an fenced besides. But it didna dae him wue bit o' siller wis aye lookin' on the black side 0 , things ouid ' aboot the future, an bein' sorry aboot the past, an' daein' naething in the present. He had na mair hope o makin' a success $o^{\prime}$ farmin' than he had $o^{\prime}$
goin' intae politics an an becomin' Premier of goin' intae politics an' becomin' Premier of Canada. his last days warkin' for men that his farm ${ }^{\prime} \mathrm{n}^{\prime}$ spent guid as he was himsel' in mony ways, but wha had better ideas aboot hoo tae get what they wanted Sae it looks as if the wee book micht be aboot richt when it says that the cause o success is awaye in the person wha succeeds." A guid start or a bad start in life doesna' seem tae coont for much
cither way. What the feenish will be like pends on the attitude of mind $o^{\prime}$ the mon himed It's a fair field $\mathrm{an}^{\prime}$ no favors, an' ilka oot gin he kens how tae train himsel for the race. Na doot aboot it. We can get what we want.

## A Small Farm Well Tilled.

The profits from a farm cannot be reckoned by the number of acres tilled, as it sometimes happens way that his a much larger acreage. The nature and fertility of the soil, the method of farming, kind of crops grown influence the profits from small farm to be handled in a manner that possible for a a greater net profit than a farm twice the size. A smal farm well tilied often proves a greater source of revenue than does a larger farm. Many people believe that handled when lin implements are considered. However, H. S. Clarry of York County, is satisfied that his sixty-acre farm gives him a greater profit than the average one-hundred acres in the community
The soil is a clay loam, running to sandy loam in grows the owner has made a study of his farm and About twenty acres are seeded with clover adapted. each spring, but only ten acres are oft and timothy remainder is broken up in the spring for potatoes and mangels. By seeding more than is required to be left for hay, there is a greater chance of having a good meadow for hay each year. Clover is valued highly as a soil renovator. The field for hay is only left in grass one year, and is then broken up for corn or wheat on the farm, and six or seven acres are planted to this crop each spring. Corn is sown in rows and thoroughly cultivated throughout the season. A:variety is mown that will mature fairly well before there is danger of early frosts, as mature silage is preferred for fattening as wheat yields acreage of wheat is grown every year, which is used freely for bedding thus increaing the amount or manure to be applied to the and A couple of acres are used for growing mangels, and from eight to ten acres are planted to potatoes. A planter and digger are used for assisting in the work, and in an average season potatoes return a good profit. About three mainder of the sixty acres is sown to oats,
Mr. Clarry is a firm believer in thorough cultivation and keeps three heavy draft horses for doing the work. Three horses are used on all the cultivating implements, and one man is kept busy with the team from spring to fall. No attempt is made to work the farm singlehanded. There is always plenty of work for two men, the other is busy keeping the place in order, hoeing, etc, In this way they are always right up with their work, or a little ahead of it, and the farm presents a neat, kidy appearance. There is time to combat the weeds, and so prevent them from taking plant-food and moisture rom . However shoull go nourish the growing securing suitable labor, and on many farms the work that is done must be accomplished by one man. Where from sixteen to eighteen acres of a sixty-acre farm are devoted to cultivated crops, considerable cultivating, and hoeing must of necessity be done, which furnishes fully to proper cultivation while if the worlspond bountidone, any weeds that might be in the soil are givghy hard run for their lives. Sufficient manure is secured from the stables during the winter to give a liberal
coating to the hoed crop and also to fall wheat land As much as possible of the manure is drawn to the field
and spread during the winter, when time is not such a
valuable factor as it is in the growing season. Under the system of cropping and treatment that is getting the soil is gradually becoming more prosuchance of a
by year; the more fertile the soil the less chance by year; the mores
crop failure. Thorough cultivation, seeding down a crop failure. farm each spring, and an abundant supply of barnyard manure, are factors which should tend to improve any farm.
This York County farm may be of interest. Potatoes this York County farm may be of interest. Potatoes are the only cash crop grown, last year they were very remunerative returns, the attack of blight, which
not altogether immune from the not altogether rummuthe yield. Practically all the other crops grown are marketed on foot. It is found to be more profitable and decidedly better for the farm tod feed cattle than to sell grain and hay. This method
also has the advantage of furnishing work for the winter also has the advantage of furnishing work
months. Only one or two cattle are kept during the summer, consequently pasture land is not required, a the three acres of unbroken land furnishes grass for stock kept during the summer. Horses are fed
rreen feed in the stable during the summer in preference green feed in the stable during the summer in prefased a fow weeks before time to stable cattle for the winter, few weeks before time to be ready for the block before seeding commences in the spring. Twenty cattle are
usually fed, although there is generally feed enough grown to fatten several more. Mr. Clarry knows a good stocker when he sees it, and endeavors to for the feed consumed. The past winter grade Angus and grade Shorthorn heifers and steers were fed. They were all low-sest, deep, thick-bodied, blocky animals
and weighed between 850 and 900 pounds when they were purchased the latter part October. Silage composed the bugels, and a small amount of hay were
straw, a few mand also fed. Very little grain was used when the catle in-
were first stabled, but the amount was gradually in creased until toward̛'s the end of the feeding period,

## Preparing for the Root Crop.

The root crops, including mangels, sugar mangels, turnips and carrots, are highly prized by stockmen
for feeding purposes. Although roots contain a large or feeding purposes. Ate dry matter of which they
percentage of water, the dry percentage composed is high in available energy. One pound
are of dry matter in roots is considered equal to one pound
of dry matter in grain. Therefore, roots might be termed watered concentrates. Besides having a tairly
high feeding value, they act as a tonic and aid in keeping high feeding value, they act as a tonic and They are a
the animal's system in good condition. The valuable feed for breeding stock, being palatable,
easily digested and very nutritious. For all classes of easily digestco pssess a value in addition to the actual
stock root
feed constituents contained in them due to their succulency and physical character, which cannot be measured in definite terms, especially when used in connection
with dry fodder. Pulped roots mixed with cut straw
miter with dry forder. Pupef roots mixedy enhances the
several hours before feeding greatly en
value of the straw as a feed. Even if ten tons of water are handled in order to secure one ton of dry matter,
feeders consider that it pays to grow roots. While silage adds the necessary succelatency fat, fibre and
and contains more dry matter, crude catbore
to grow, it will never altogether displace the root crop.
The mangel contains about 90.6 per cent. water 1 per cent. ash, 1.4 per cent. crude protein, .8 per cent.
fibre, 6.1 per cent. carbohydrates, and 1.1 per cent. fat.
The sugar mangel contains less water and is considerably higher in carbohydrates, which gives it a little
higher feeding value than that of the mangel. The composition of turnips and carrots is similar to that
of the mangel. Horsenen prefer carrots, although
mangels and turnips are also frequently fed. Dairymen find the most satisfaction from fecting mangels or
sugar mangels, as there is little danger of them tainting sugar mangels, as there is little danger of themt taineting
the milk, although turnips will produce as large a flow
of milk. Many stecr-fecters plan to liave turnips or of miles. for fattening their catte. Shece and swine
swedes
also winter better if they have aupply of roots. Pre-
paring the seil, summer cultivation and harvesting roots entails a good deal of work, and the acrease owing to lack of cultivation, there is danger of there sown has decreased somewhat furing the past rew
years, while the acreage of corn for silage is kradually
increasing. Silage adds succulency to the ration and in part takes the place of roots, bye it is loultful
whether it has the toning effect on the animal sytulul
that roots have. Preparation for Sowing. - Prepar in cool, moist weother the Roots thrive best in cool. M10ist weather and appeat
to reach perfection on the Britith Isles. wherr the root
crop is a regular part of the rotation syotem, and is proped for feeding all classes of stock. The averag
season iin Canadi favorable io growing troots, and
and considerable arreage is still grown, espectially in disitrict.
where silos are not used
any koots will grow on allush of soil, provided it is thotoughly workect any kind of soil, provident it it thoroughy wolker
and given a literal quantity of barnard manure
They are rather heay feders and lecyive a good supply of readily a vailable plant-food in order to produci
heavily. On a heavy soil an application of comse manuly usually proves advantageous, while for liyht land on
fine, well-rotted manure should be applicd. Fior the mangel crop, which must be sown in the spining, it
a good plan to apply the manure in the fall and plow

## before preparation for seeding in the sprin any

 as there is time to thoroughly incorporate it in thesoil. From twelve to fifteen tons per acre is a fairly good coating of manure, although many growers prefer quently used and very satisfactory results have been quently used and very satisfactory results have been
obtained. Salt is sometimes applied to land that is to
be sown to mangels, and appears to have beneficial effects.
The custom of having roots in the dirtiest field on the farm in order that the extra cultivation which is necessary to produce a crop might destroy the weeds the following year is weedy, a good deal can be done
towards cleaning it by early fall cultivation. Roots do well on a well-rotted clover sod. When the first crop crop. The sod may be plowed shallow early in August should be sufficiently well rotted to plow the field again mold-board plow is frequently used, which leaves the its beneficial work. The manure for mangels should prefer to plow the sod quite deeply, immediately afte having, and then give it thorough cultivation iuring
the fall, and if there is any manure to apply, it is culti-
vated in rather than plowed under. This method proves quite satisfactory and is effective in destroying many
weeds. Sod is not always available for the root crop. in lact, many make a practice of putting the roots but it is usually a little more difficult to keep the crop not being sufficient monsture to germmate the mangel
seed. By spring plowing, the soil is loosened to a fair
$\qquad$
$\qquad$
and Jumbo. Considerable work has been done the past year or two in determining the value of home-grown
mangel seed, and results are in favor of the seed grown mangel seed, and results are in thavor of the seed grown from the field in the fall, and storing them in sand in a cool root cellar over winter, and then planting them in the spring, it is possible for each farmer to produce his own mangel seed and have it of better quality than it is possible for him to purchase.

As a rule, mangels are sown as soon as the land can
prepared after the cereal crop is sown. Many claim be prepared anter the cereal crop is sown. Many claim
that the sooner the seed can be put in the ground the better, while others prefer to thoroughly work the soil and delay planting until about May 24, claiming that. by allowing the soil to become thoroughly warmed before planting there will be a more uniform catch.
The plants will also make a rapid growth and thus keep ahead of the weeds more easily than if planted when the soil is still cold. If the soil can be put in good tilth and the weather is favorable, early planting may be advisable, but it is better to delay seeding rather than sow on poorly-prepared soil. Mangel seed does not germinate quickly, and if the field is anyway grassy, the young plough to permit of using the cultivator are high enough o common practice is to sow turnip seed or buckwheat, which grows quickly, with the mangels in order to follow the rows and keep the weeds in check. Mangel seed is frequently sown with the turnip drill, which sows two rows at once. for this method and then rolled with ridges about thirty inches apart and to firm the loose a heavy roller five pounds of seed is sown per acre, and
soil. About five soil. About is covered from one-and-one-half to two inches deep. If the soil is dry, the roller is again used, as the soil particles must be close around the seed to give moisture to start growth. Mangel seed should germinate 150 per cent., but plenty of seed should be sown in or adverse conditions materially affect the stand of crop. The grain drill may be used for sowing mangel seed on the flat, but this method requires a little more and then rolled before sowing. All the spouts, except those used for sowing, are removed. If an eleven-hoe
drill is used, the second tube from each end and the drill is used, the second tube from each end and the
centre one would be left on, and by driving the wheel centre one would be left on, and by driving the wheel
in its own track made the previous time across, the in its own track made the previous time across, the
rows would all be left 28 inches apart and three rows could be sown at once. A wider or a narrower drill could be arranged to have the rows the correct distance apart. Care should be taken to have the soil level, or there will be danger of having some seed covered
too deeply. If the soil is loose, it should be rolled after sowing but it is often a good plan to give a stroke sowing, but it is often a good pan the light harrow a few days after seeding, especially if there has been a rain. This will break the crust and make it easier for the tiny plants to push their way to the light. A modification of this system is to fasten the spouts from which the seed is sown so thatach a cultivator tooth to each side of the the spouts to cover the seed, which is sown on top of the ground. This method makes hoeing a little easier. Where only an acre or two of mangels are sown, the hand-seeder is frequently used. It gives better results than the other methods, although it takes a cong is easily conwork. By its use the depth of planting is easily con the difference in time it takes for planting, it probably pays to use the hand planter. The check-row corn planter can be used to good advantage to sow mangels on the flat. Sowing the seed on the flat is preferable amount of moisture, which is necessary to soften the hard hull surrounding the seed. It is possible to have do best on a well-drained soil. As soon as the rows can be followed, the cultivator should be used to break wheel hoe for the first cultivation, as it can be used much sooner than the horse cultivator may be a good plan to use the hoe and cut the weeds away from the side of the row, so as to give the mangel plant a chance
Many may think that this takes too much time, but cmbsuman taken in the first hoeing is saved later on and they should be thinned to a foot or fifteen inches apartf leaving the strongest and most vigorous plants willed in
possible. Blanks in the row are sometimes by transplanting, but this is not always successtury
Frequent cultivation during the summer is necessary to destroy weeds, conserve moisture, and keep the
soil in good condition. A second hoeing to remove soil in good condition. A second hoei

Only a small acreage of carrots is grown, as it is
The varieties most prominent are the Improved Giant, Short White, Mammoth Intermediate White, and Mammoth Short White. Carrots may be planted on well-prepare
soil about the same time as mangels. The rews are made about two feet apart, and from two to three pounds of seed is required per acre. Growth is very slow and weeds often get the start. The hand wheel-hoe
is almost indispensable for giving first cultivation.

two crops previously mentioned. As the seed is not partial summer fallowing, which kills weeds or gras and leaves it in fine tilth for seeding. The more cultiva tion that can be given the fall previous the bette but it is not so essential as for mangels and carrots ield are the Purple Tops, Good Luck Hall's Westbury, Jumbo, the Bronze Tops.
While some growers sow their turnip seed the latter part of May, it is believed that, by delaying seeding antil the miduce June, a firmer and better keeping foom twenty-eight to thirty inches a part reeder is used for sowing the seed, and depth and thick ess of seeding can be regulated. About two pound per acre is the usual amount sown, and the seed should oot be covered too deeply. If the soil is moist, germina ion is rapid and a few days after seeding the young plants show quite plainly. When the plants are large the sides off the rows, which facilitates the work hoeing the first time. Plants should be left about one foot apart. Frequent cultivation through the season yecessary to keep weeds in check, and the soil loosened A yield of from eight hundred to a
If the soil is carefully prepared before planting and the given judicious cultivation throughout th or the succeeding crop. Working the land when it wet, tends to spread, rather than eradicate weeds specially if they are of the nature of sow-thistle or witch grass. rowing a crop of roots, they are a produc silo full of silage

## THE DAIRY

## From Stall to Pasture

Regularity is one of the important rules in a suc cessful dairy stable. The aim is to feed the same kind is made, it is done gradually, as: a sudden chang flow of milk. Milking must alsom and decreases the time each day, and by the same person. Any a certain from the accustomed time is readily noticed when the milk is placed on the scales. If it is necessaty for the dairyman, who has a herd under test, to closely follow a schedly en order to get the most from his cows, it is equally important that the same regularity be given the maximum. In a few weeks a decided and to thei cases a sudden, change will be made in the many most herds. From dry fodder to fresh, green grass in a day is sufficient to disturb the best bovine digestive system.
It is a mistake to turn stock to pasture in the spring The young, immature grass contains a large amount of water, and a considerable quantity must be condiry. matter, or food the animal may receive sufficient gccomplish the regular amount of work in the form of producing milk. Not only is too much of the "washy" kept cropped short and never supply the amount of feed through the season that they would have, had the grass been given a chance to get a start in the spring The effect of soft grass is not noticed on young stock, but is plainly shown by the milch cow. At first the to her new rations, and the grass becomes more mature, and quality of the milk. When the animals quave an opportunity of consuming a large quantity of grass in nutritive value to the grains. The fresh grass is also more digestible than dry fodder or cereal concen-
trates.
than older grass contains a higher percentage of protein economical feeding some dry roughage or concentrates should be fed the first week or two that cows are on grass.. By the middle of June a good clover or meadow
grass pasture will provide a ration that will permit a cow to do her best. Analysis of red clover cut at certain dates show that the amount of protein and mineral substance is greatest in the young plant, but gradually plant matures. This points to the fact that feeds nature in new grass should be of a carbonaceous adure in order to balance the ration, but as the summer
advances and pastures become drier, feeds that will bolster up the protein sidecome drier, feeds that will winter to the from the comparatively dry feed grees. Give the cow her regular feed of dry fodder
before turning Once the cow secures a good feed of grass it is well are rich in the same substance that fresh grass contains.
Something is in order to balance the ration. When the carbohydrates up warm, grass soon becomes firm, and may be conrequired As pasture, supplementary feeds are not or less mature and is frequently rather short. It is
ration, and additional feeds shoutd be of a protein
nature. It is a mistake to allow given a frequent change of pasture. although it is to allow grass to be too closely cropped, acre field, divided pastured on it week about will five-acre lots, and cows By use of a the cows on it continually. divided in order to give the the pasture field could be Early in the season the nights are usually chilly and the ground damp. Both these conditions have a detrimental effect on the animal system as well as on disabled, it is order to run no risk of cows becoming the first week good plan to stable them at night for the summer. This may entail a little more work but a cow's life may be saved by it. Extreme changes should be avoided if possible. If the cows are kept in the stable in the spring until there is good picking in
the pasture field, the increased amount of feed resulting from giving the grass a chance will amply repay for the

## POULTRY.

## Enemies of the Poultry Pen.

There are a number of parasites which tend to
make life miserable for poultry unles are taken to keep them in check. The hen-louse and poultry-mite are among the most common, as well as the most troublesome. They infest all parts of the pen as well as the bird. The lice are permanent are only temporary, as they attack the are nocturnal, but leave them in the morning, and spend at night in cracks and crevices of the perches, nests and walls of the poultry-house. The food of these mites is believed to consist wholly of blood. Hens that are affected will often cease laying, and the productiveness of a flock may be greatly reduced by allowing these minute insects to visit the fowl. Sitting hens newly-hatched chicks also suffer severely unless treat ment is applied.


## Ducks' Delight.

Lack of light, and filth, are the two chief cause the presence of mites and other parasites in the poultry-pen. When building a poultry-house pro-
vision should be made for light to penetrate every part of it. The house should also be built so thc., can be taken out, as they are more easily cleaned if removed from the pen. Having these thing moveable also facilitates cleaning the walls. Preven. tion of vermin is easier than effecting a cure. If
the house is frequently cleaned and thoroughly treated the house is frequently cleaned and thoroughly treated it will greatly lessen the danger of infection. If the pen where poultry are housed becomes infested with mites, the perches, nest and anything
else moveable should be taken out so that insecticides may be more effectively applied. It is a good plan to
sweep the dust from the walls and clean out the pen, hen spray with kerosene or crude petroleum, forcing into every crack and crevice in the building. The
iquid will destroy the eggs of the mites that it comes in contact with, but some are sure to escape, and the pen should be thoroughly gone over again in about a
week to kill young mites that may hatch. Sometimes a third application is necessary to completely rid the
pen of the pest. Old nests and perches should be pen of the pest. Old nests and perches should be
treated similarly to the waills of the building before being replaced. Poultry will never be profitable if
kept in a mite-infested pen It is a mistake to set hens on eggs in the same
pen with other fowl, as mites infest brooding hens pen multiply rapidly in the nests. For the comfort of the sitting hen, she should be set in a clean box
or nest and placed in a quiet place away from other
dusted with insect powider occasionally. Most henf make frequent use of a dust bath if one is available:
The dust aids in keeping the tien louse in check The dust aids in keeping the hinilouse in check Kanger of young free from lice, will lessen the soon succumb to attacks of lice. If they become affected, it is a good plan to rub a little lard or vaseline around the head and under the wings. Vermin is a destructive enemy of the flock, consequently every poultryman should be on guard and prevent its in-
roads into the poultry-house. Cleanlinese roads into the poultry-house. Cleanliness and light
are effective weapons in fighting these parasites.

## A Chance to Improve Our Egg Markets. <br> Editor "The Farmer's Advocatr"

tage wrote you some time ago regarding the advan. the egg business and shippingers getting together in in your issue of March 23, J. W. Clark, who hae been addressing Farmers' Institutes, calls, attention to the need of a large supply in the hospitals in Eny land and France, and closes by saying that "Canada'0 maintained by a proper government system of inspec tion. I have taken this matter up with a government representative who. was here helping to promote co-operation amongst fruit growers, and learn from him that there are sixty co-operative egg circles in difficult to get a uniform pack from them. Now be seemssto me that if these gentlemen are right it it useless to attempt co-operation at all. If farmer are unwiling or unable to have their eggo graded through a co-operative company, it is useless to attempt this if they are shown the cannot, however, pelieve from so doing, and I do not think there is any practica difficulty in the way. If the different any practica circles in Ontario, to begin with, will get to tethe and settle on what is required in order to sell to the best advantage, then each separate co-operative
circle can carry circle can carry out this requirement. All should then ship to some central point, where the eggawil graded at this hainpipin
centre. To overcome thit dififcuity of havine the ciated by shipment mad
by dealers, whether of Ay derican or Canadia eggo of inferior quality let a brand be registered
and all haipments marked and sold under this brand. If this is done I have no fear of the resslta,
and II am not arrivig a
this opinion theoreticall this opinion theoretically own experience. I have
been been 7 shipping all my egge for some years, and
I never, think of taking them to the local grocer. botr, kne of my neigh thin hate
atked me to handle heiz eve oe well, We heve not lorped a co-operative
irime. but wornto
in this way In had way Last monts dozen of my own, and from my neigbI have a contract from a restaurant for sixty dozen per week, and the in Toronto. I to consumers and to a retail grocep or to a wholesale dealer. Now, my system of handling is this: To be select, all eggs must be clean;, they should not only weigh 24 ounces to the dozen, as has egg in a case of selects that weighs io not put an Ing in a case of selects that weighs under 2 ounces.
It casionally I weigh one as a guide, or if in doubt, but hy practice 1 have come to know an egg that is too tight on sight. Eggs lighter than 2 ounces are put to one side and packed by themselves. In packby themselves, and the same with brown. I I get for selects the price at which they are being sold by the
wholesal whes ten dealers to the trade, and for the lighter pack any eggs that less. In the lighter ones I do not matter of fact the lighter not weigi $1 / 2$ ounces; as a dozen. It may seem as if 1 lose by this culling small eggs than the local am getting more for the trade, and more for the selects than the local groces gets for his eggs. What I am doing in a small way.
can be done far better on a larger scale, and if we can rise to the occasion and get our eggs on the English market on a par with the Danish eggs it will make a co-operative egy circles take hold of the the all the necessary information as to the Danish system from the Department of Agriculture, Toronto. I
believe the Deputy Minister has been in Denmark believe the Deputy Minister has been in Denmark
and will know about it. The British market wanta and will know about it. The British market wants
our eggs. They are already enquiring for them through


## What's in Poultry Feeds ?

## Editor "Thr farmer's Advocate

The poultryman who looks backward a decade or ty likely to be impressed with some of the changes that have taken place in the poultry-feed business. Then stituted practically the entire chicken menu of the daysimple proposition compared with present method. No one bothered about buckwheat, sunflower seed ar the like. Morning and evening a feed of corn and wheat was scattered about for the hiras; ches in supplying time they were left to their own resources in supplying in the fields. When a fowl was wanted for table use recourse was had to corn meal as a fattener

But while the system of feeding then employed would now be considered somewhat primitive, it must
be remembered that eggs were seldom high in price end other foodstuffs comparatively cheap. However, as the cost of living steadily advanced the demand for eggs became stronger and with it prices ad a ready market at figures which would then have been connidered fabulous. Thus their cost to the consumer caused them to be looked upon as a profitable line from the producer's standpoint. That individuane up and his profits narrowed accordingly. As question both practically and scientifically. This resulted in several discoveries. First, a hen fed entirely on corn became too fat to lay Eegg. Second,
that the cost of wheat was too great to be fed extensivethat the cost of wheat was too great to be fed extensiveand did her be

Having reached these conclusions, the progressive poultryman proceeded to mix five or six grains and foed. Then his local feed dealer, who was also an enterprising man of business, quickly took it up and through him the big distributors learned of a new field in the grain trade. Almost immediately several scratch moter, appeared on the market, and being extensively moters, appeared on the market, and being extensively compounding of poultry mashes to be used in connection with the scratching feed, thousands of tons being to-day manulactured for both domestic and foreign use
Naturally the competition among manufacturers there is but a smill margin of profit the businese being dependent on the quantity of output. Hence, certain manufacturers who originally built up their trade with a good quality product have fallen into unscrupulous ways. They have sought to cut down costs by gradually working in unsound and inferio grain. Another scheme, is to mix in poultry grit, some your dealer's price for good honest grain such as wheat and corn with what he charges you for grit and you can figure out pretty accurately what kind of a profit the manufacturer is getting on the transaction. Stil another method of reducing price is to increase the ingredient in a scratch food. This is not especially harmful, if not overdone, but forty per cent. of this grain should be the limit. It not infrequently happens that the manufacturer, who is particularly zealous in his own interests, will include as much as sixty per cent.
of corn. This cheapening of the feeds enables him to meet competition by dropping the price below that of this by poultrymen themselves, who will buy the cheaper feed in preference to the really honest mixture that must be sold for a few cents more, forgetting that the
material he buys must necessarily be cheapened by material he huys must necessarily be cheapened by
adulteration to allow the maker to sell it at a reduced adulteration to allow the maker to self it at a reduce
price. valuable egg material. Hence, they are worthy of a place in any good scratch feed. For this purpose
clipped oats are the best; that is oats with the end of the husk clipped off. This removes the groat or
slender stem that holds the oat to the stalk, and through the oat is cured, it dries out, this, groat assumes a needle becoming punctured. mot question of a good mash feed is of even more
mportance than the scratch feed for through it is generally supplied most of the material necessary for
egg making. It, however, affords a splendid opportunity for using inferior ingredients. If the manufac-
turer is susceptible to temptations of this kind it is an easy matter to save some sweepings from the mill
floor, mix in some brown middlings and oat-hulls and get up a fairly presentable looking nash, which even have trouble in distinguishing from an honestly mixed
feed. Of course a mixture of this kind can be sold much cheaper, but many feeders who have invested
some of their money in it have realized afterward that
the experience thus obtained was about the only real
value they received Sawdust also makes a fine filler from the dealer's standpoint. It cheapens the mash, allowing him to underselt competitors and when the
mixing is. well done the best feed judge in the world might easily overlook
However, don't get the impression that all feed dealers are dishonest. Rather, I think, such are the exception. Yet once fooled a man is likely to become twice wise. Not long ago, the writer took advantage of an opportunity to visit an estabishment where the different kinds of poultry feeds were prepared for the market. Here, so far as could be sent, ese grains.
was taken in selecting only sound and wholesome was taken in selecting only sound and whed emphasis that the maker of honest goods is no more in love with the ways of his tricky brethren than the poultryman who is the ultimate victim of their machinating for this evil of fact, the consumer has the remedy for this evil
largely in his own hands. Once he finds a brand of feed that contains good sound grain and grain products, properly mixed, so that results, are obtained in the egg basket let him stick to it and cheerfuly pay fuent salesman who has something cheap to sell. To assist in making a choice, here are a couple of formulas used hy one of the big pouterulted. Scratch feed: Cracked corn, 35 per cent.; wheat $241 / 2$ per cent.; white clipped cent; sunflower seed $1 / 2$ per cent. Mash: Bran 20 per cent.; middlings 20 per cent.; ground oats 20 per
cent.; corn meal 10 per cent.; gluten feed 10 per cent. beef-scrap 9 per cent.; alfalfa

## Elgin Co., Ont

## HORTICULTURE.

An Orchard in Each of Four Seasons

## editor The Farmer's Adooca

"Beneath these fruit-tree boughs that shed
Their snow-white blossoms on my head,
With brightest sunshine round me spread
Of spring's unclouded weather.
To sit upon my orchard sea
To sit upon my orchard seat
And birds and lowers once more to greet
My last year's friends together.'
The warm air is once more tingling with new life and in the orchard, where the limbs of the old apple tree were red and changed to misty green. The jubilant birds sing as though each throat was a fountain of joy, just bubbling over and giving vent to itself in hilarious song. They flutter about, from tree to tree, singing all the
the while and making it seem that the whole orchard the while and making it seem that the whote orchard is alive wiln songsters. we hear a whistle of wing dove which was bowing cooing and paying more homage than really was due his pert little mate, while she, with slate-colored back and irridescent neck, did not even look as though she were willing to admit the nearness early morning, when the mist was disappearing mysteriously and the sun was gradually creeping higher and higher, trying to love back into life and hope robin, emblem of buoyancy, bounced along under the
trees. If you wish to study the birds con trees. If you wish to study the birds, come out early. "the early bird gets the worm." Have patience. Stay "the early bird gets the worm." Have patience. Stay repaid and will not have to watch long before you will see many specimens of the bird family. On one particular morning I found great pleasure
in watching this way, and, not much time had elapsed before 1 saw robins, song-sparrows, cat birds, blackbirds, a wood-pecker, a snipe and doves, all hurrying
about, each intent upon securing his breakfast before about, each intent upon securing his breakaast before stopped to give vent to the pent-up tcllings of his the whole, they were remarkably quietful song; but, on This was their feeding hour, and, though all the birds were on the ground during the greater part of
the time, it was not difficult to distinguish some of the characteristics of each. For instance, the robin, of all known and loved, is a walker, and, as he raised his his chest and with mighty hops fairly buonced along

## I saw before me an example of cheerfulness under al

Perhaps one reason for the popularity of the robin
is hers confidence in mankind. He places his hemis-
pherical nest, nade of grasses and sticks held together
by hardened mud, in the fork of a tree in the orchard,
and usanly just at the top of the trunk, where the
h,lue exags, which finally are deposited there, are in
extreme danger. He seems to appeal to our sense of
honor perhaps more than any other liird does because After the first modest chant of the song-sparrow,
that sweet, clear, ringing note, which seems to speak
more plainly than words, of innocence and joy, of hope and cheer, we almost forget his presence and leave him
to his mate and his nest, whicl is built of fine dry grass
and rootlets and is placed in low bushes or on the ground and rootlets and is plated in low bushes or on the ground.
To those who delight in the cadence of seet song
there can be no other bird so dear as the orchard-oriole.

Though years may elapse, we can always recall th arst rich warble, which seemed a finished song in itsell, as we heard it long ago across golden pools of water
where the slanting rays of the setting sun proclaimed that day was well-nigh spent
Suddenly there comes an unforgettable odor of golden-green shrubbery, and we are aware that spring
has advanced and that the orchard is transformed into a veritable fairy bower of pink and white blossomi which exhale a deliciously intoxicating odor. For little while we stand enraptured by the scene whic breathes of purity on every hand: fresh, green grai as ever and as sol as a carpet; trees of pink and whit which ean in a rriendlye manner smiles down. It is no longer chill and grey, for winter has gone and spring has come. Sheep stray about the orchard, spotting the shadows under the trees with their dun-colored
bodies, while their ungainly little ones caper unsteadily by their sides
Who can keep from creeping close to the heart of
the big outdoors? We go to observe; but our mind the big outdoors? in go to imagination we hear the tinkle of bells from the hillsides, or the sound of frogs, faint and mournful across twilit meadows, for we are not living in the gay present; but have drifted to a land where all is in harmony with our feelings and we are reflective, yes-sometimes sad. upon us with warning the change which has stolen upon us without warning, the pink and white trees
have been transformed to leafy green, which stirs and makes a very welcome breeze, for the air has become warm and it is summer time.

Now and then a gaily-colored butterfly fits past, a golden canary makes its undulating tight acrome the orchard. The bees murmur, and though we find it so warm that we enjoy indolence, books or fancy:
work on a rustic seat in a shady corner, these littlf woctar-gatherers cease not in their labors.
Through the silence there falls upon the ear the shrill cry of the bluejay, for

## Along the line of smoky hils <br> And all day long the blue jay call <br> Throughout the autumn lands."

 of heavy loads of fruits, being gathered in.
The leaves on the apple trees have begun to ture to russet brown. Lookking under the spreading bouthit at the fields in the distance wee see a vaporous curtai of purplish hue, hanging over everything, though the
sun shines brightly. There is an indefinable, a myt sun shines brightly. There is an indeennable, at thit
terious something to which our hearts respond at particular time of year. One is aware of a sensation particular throbs through one making one feel that it he good to live and meet that we
The sky has lost its brilliancy and has assumed
quieter color. Near the horizon it shades into bluith quieter color. Near the horizon it shades into buris the smoky air, are tinged with purple. The maplem have donned their most gorgeous reds and yellows, 2 if they were making a a glorious and riotous display fury meekly submitting to the howing whin looking nder the winter blast. Ali this we see whie It is th time of gathering in and of thanksgiving. The friendty apple trees seem to assume a still more social attitud as they bend their arms laden with delicious red frim toward the ground. The scene has altered decide Here and there under the trees we see barrels, which
filed, some ready to receive the delicious fruit, winte , be ready to receive the der the merry winter lays hard by
The sky grows grayer, the clouds hang low or scred cross the sky. The wind howls. There is a nip. the air all day long, and at night the frost o a ature to make a kind of music among them, and another kind music in the row of dear old spruce trees, which hai long year there, at the end oal sob for something which can never be and which seems to relieve us somemay. Once again we are aware that nature has uttered o. inexpressible feelings for us.
The earth is just ready to turn white. A few bried weeks elapse and we awaken to find a world of purity The evergreens are bowed with white. Oh! the main
ioyful associations! The merry bells, the happy litle joyful associations! The merry bells, the en except by
ones and the silent orchard now forsaken, us! We love it still, and so we go there upon glittering
skates to skim up and down the hollows, which art now covered with shining ice, between the trees, while
the dear old orchard glad of our companionship onece tree to tree and

## Our hearts beat light With a music bright, As merrily on we glide.

Middlesex Co., Ont Olive Hamil-Martin.
George Bernard Shaw, with his usual tersenesst
describes the German militiarist as aa "very common
sort of blackuard" who proved his stupid brutality
by shooting nurse Cavell, and his idiotic heartlessinew
by sinking the Lusitania.

May 4
An Advi Editor " The ar "ubrighter ${ }^{\text {a }}$ United Sta only 20 per them into you say ab over-doses.
that in the

## based

Here
nurseries bu
eastern two
growth or
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All the tree
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the air. One me, do not $h$ of air and sa but that alon
rowth. On lllow them mowth and cight among had early to noisture tha When I fir bith delight a re had an a Srowers and all pounce on ree to grow a attending to illy start to What it is goin ar less under
Farmers' Ins ould se be the
reached
were th ought to be
archards tha ould be rowers you County.
article.
ook a tapelin slanted 15x3 at out this yis orchard has been hea troe year egetables ha 8 you know
contend ranches measured The bet measu ows, the la twat is $t$ On our fo from the
on the
where

An Advocact of Thorough Pruning. Editor "Farmer's Advocate

The article on developing young orchards in the "brighter days coming", very interesting. As for the stated that \&0 per cent. of the trees in Canada and United States never come into bearing. In other words only 20 per cent. of the fruit trees the nurserymen sell and which are planted out, get sufficient care to bring them into prontable bearing. There is much in what over-doses. In the Okanagan we got something of ing of apricots
based on the stock carried by the eastern nurseries Here we can get nothing but year-old trees from the nurseries but they are, in all probability, as large as the eastern two-year-old for they are invariably a forced growth or grown in virgin soil. This is no doubt the planting, and nearly all head back to 24 inches or less. with the intention of getting the apples into bearing at four, and profitable bearing by seven and eight years. Most of those planted have been put in on hat it is of no lasting benefit for the trees' roots will be out into the gravel subsoil inside of the first year, and visable.

Among the young trees here we grow our vegetables and where vegetables are not grown the tree rows are
kept cultivated, but between the rows alfalfa is generally grown. I have never seen the mulch of alfalfa as try it. Trees ought to do better with the soil open to the air. One reason why trees grown in sod, it seems to me, do not have the growth is on account of the lack
of air and san heat at the roots. Of course we must of air and son heat at the roots. Of course we must but that alone is not accounting for the deficiency in growth. On July 15 we sow oats in the tree rows and rowth and encourage the young wood to ripen. Then the spring we have no sod to plough but can go They among the trees with an ordinary cultivator They need the ripening for more root winter-killing maisture than any other cause.

When I first read your article I agreed with most of ith delight and approval but I am afraid I have idea back on it again. Two days after your paper arrive he had an annual meeting of the Okanagan United Growers and at noon I was having dinner with the all pounce on me, advocated your idea of no purning One fellow next to me went at it this way. Leave a tree to grow as it likes and it will fill out into a nice shape
with a lot of short branches close together and will be ttending to nature's job of reproduction. It will event ally start to bear, but, since it will be after seed, that is what it is going to get. There is likely to be a countless or less under color and bruised Farmers' Institute was at the head of the table and could see nothing in it. His objections were that long branches trailing on the ground would reached eight years of age it would still be small if it ought to be bearing at that age. He mentioned a few orchards that gave some idea as to what the result would be. There was not a man in the crowd who rowers yo me method of pruning adopted by the the Fishers of Halton County and P. E. Angle of Norfolk I went home thinking it over and re-read your some orchards and went to see one in particular. of my neighbors who has ten acres, thirteen years ond planted $15 \times 30$ with peach fillers. The fillers were Cut out this year and most of them three years ago. last two years all pruned for shape every year. The vegetables have kept clean. Other years more or less as you know are robbers of amourishment trees. Peaches to contend with his trees are now so high that stand branches to prune. The trees of annot reach the top measured are 21 to 26 inches around the trunk, half
way between The first branches are ten to thire the branches start. I measured some of trunk and where they branch out. measured some of our own trees nine years old,
treated the same except that they have had sod in the
rows, the last two years. They measured, on Mc rows, the last two years. They measured, on Mc-
Intosh Reds, 19 inches around the trunk halfway be-
tween the ground and branching. The branches, that is the ground and branching. The branches,
where they divided, went nine inchey from the trunk to
On an average On our four-year-old Wageners the trunks, halfway
from the ground to the first branches, went $7,10,12$
on the 4 to 6 inches halfway between the trunk and the point
where they branched Where they branched off. These four-year-old trees
have had one year clean cultivation and have had the tree rows in sod but the spaces between the tree rows
have been used for vegetables. The four-year-old leaders only, The old trees, that is the Moaving four were pruned till the last two years when the fru itarcely permitted the growth to reach a length wher now in bearing and will hareur-ycar-old trees ar but we will not let them bear more than half this yea They could, so far as strength is concerned a box eac boxes easily but we will thin out and not sap the trees trength, but let them grow some more.
Vegetable Station here in charge of the Experimental Vegetable Station here and he said he had seen an that was the worst he had witnessed. The branches were trailing, wind-broken and the trees of branche size. Of course here we have more phosphates and hitrates in the soil than I believe is the case in rain are planted it is mostly virgin land when the trees between the growth may not make much difference be interesting to me to know the in the East. It would ments given above that was made on the trees of the growers you mentioned.
leave pruning a young tree I leave the centre in and in most cases) starting (am finding four too many main stalk. Above those three not directly above the first three, but so they will be above the spaces between the three lower branches and observe the same again in the third group.
get is to go picking the fruit. That may seem a queer statement to make but when we remember that it is seem so far out. Some of the bad fruit is caused by injured by branches moving in the wind. Long branches with a load of fruit and not stout enough to carry it will bend till they not only injure the fruit they carry but the branches below. That is why I avoid leaving one best but a tree too closely branched and thiclly leaved will shade fruit and many branches on the south side of the tree will shut off sunlight from the apples on the north side of the tree. When picking fruit you see those things, and a hundred others.
evident opinion not to have gone back on your evident opinion not to prune, but as I am planting a compare in five years from now. There is one thing you missed that appears to me to be of primary imiportance and that. is variety. Apples sell best in mixed car lots; a straight car goes hunting a buyer. I believe in planting so that when the orchard is in bearing a car of three or four varieties can be made from the
orchard but I do not like the idea so many have here of tackling the job that should be left to the experimental farms. Every catalogue paints some varieties, but fight shy of those new ones that are not known.

## The Prairie Farmer and the Apple

 DutyApparently the grain growers of the Prairie Provinces do not take kindly to the additional tariff of 50 cents per barrel on apples, recently imposed by the Dominion
Parliament. This, with the previous tax, makes the duty 90 cents per barrel, which they consider altogether too high. At a meeting of the Canadian Council of Agriculture some time ago the following resolution was
adopted: adopted:
hereas, at the request of the British Columbia 40 cents to 90 cents on apples has been raised from enormously high duty-approximating 100 per cent ad valorem on the cost of production of apples in Canada and whereas, the evident purpose of the imposition of this duty is to force the prairie consumer to pay a higher price for apples: therefore, be it resolved that this, the
Canadian Council of Agriculture, in meeting, declares this to be an unrighteous attempt to exploit the prairie farmer for the benefit of British Columbia fruit-land seculators, fruit growers and middlemen, and we Manitoba, that if this becomes law and they are to be taxed in this manner, they pay these taxes into the than treasury by purchasing imported apples, rathe to British Columbia land speculators, fruit growers and middlemen.
The grain growers are obliged to purchase practically feel the ffect of the proction afforded the Brat Columbia apple. To boost the tariff on apples and rather provoked the men of the West. The prairie
consumer will feel the influence of the increased duty most, and they can see no reason why thousands of
grain growers should be taxed in order to protect a ew frut growers in the Pacific Province. British Columbia growers claimed that the competition acter, and of the kind that did not and could not exist per cent. of the fruit plantings in the Northwestern States must go under to enable the balance to survive.
In four years, ending 1915, the average selling price, In four years, ending 1915, the average setling price,
according to authorities in the Northwestern States, was more than 20 cents a box below the average cost
to get rid-bf their low-grade apples. "Over 85 per cent equal to our No. 2. The average f. " C " gelling price in the past four years was under 70 cents per box their average cost of production was about $\$ 1.06 \%$ per box, showing a loss of nearly 40 cents. In the face
of this competition of this competition British Columbia has been forced to market $90^{\prime}$ per cent. of its crop. The cost of produc than that in the Northwestern States, ranging from $\$ 1.20$ to $\$ 1.28$ per box. Thestern States, ranging from with the products of other Canadian orchards, but they thought it unfair to compete with a country where over-production was forcing growers to market at a price far below what it cost to produce the fruit. On
these grounds the B. C. growers asked for protection

Eighty-one days after the last session the report of
the Western New York Horticultural Society Convention was this year in the hands of members and the press. This is an old organization. The Convention was its sixty-first 20, 27 and 28, at Rochester, N. Y., not become feeble or tard inge but with age it does A volume containing 252 pages, well compiled and plainly printed, this year carries the convention to the homes of the members before the rush of the season do their he secretaries of all the associations usually do their parts well, but there is need of speeding up
the press responsible for similar reports of conventions

## FARM BULLETIN.

## A Step in the Right Direction.

Editor "The Farmer's Advocate":
There was held in Charlotetown, Prince Edwerd sland, March 7 , , Eaward conference for the purpose of dibcusting the recourcts of the province and the present systems in vogue; under which many of the industries were being pursued,
more particularly agriculture and fisheries. Education more particularly agriculture and fisheries. Education ment, reorginizationi or development wis diacused A permanent committee of twenty was appointed which was to meet later and resolve themodves into sub-committees to carry on the worl:
The committee met April 10 th A and the Chairman, Frank Hearte, made the following otatement: stand that this is a non-partisan committee. Politific: have been eliminated in the selection, and poitich endeavor to keep politics out of it. You may not ali agree with me, but 1 am under the impression that political jealouisies in the past and even at the preserit time are materially retarcling the growth, development and progress of this province. If we are to. set reaulte
we have to put aside all narrow-minded political bickerings and apppoach this great work, which wie have been appointed to complete in an open-minded manner, resolved to carry it through untrammeled by pre judices of any and of every sort. This is not goine
to be a mere scratching of the surface, but an importabt to be a mere scratching of the surface, but an inhportaht and forward movement, which we muast make up our hesitation in saying that if we eventually act the sults that we are after, and we must get them, we who have participated in this movement, will in after day
feel as proud as if we had been decorated for valor in the present great war.
culture, Fommitteres were appointed to consider Agrie Industries, and Transportation. A preliminary report will be submitted about the end of May and doubtlee emphasis will then be placed upon those features where redress is mos

## ost feasible. Many reali

hat might be dize that there are resources untouched good, does not reach the proportions that it should. Now, the work has been lifted out of politics, neither party being able to claim credit. There is every
reason to expect very substantial results, because the committee is composed of successful business men committee is composed of successful business
farmers and educationists.
W. R. R.

## A Transportation Epoch.

Concurrent with the rapid application of electrica power to transportation in Canada, particularly in the Province of Ontario, comes the interesting and encouraging announcement that the Chicago, Milthe great task of electrifying 440 miles of its track across the Rocky Mountains. In importance this achievement ranks comparably with the first journey of a steam locomotive. The progress made in statee like New York, Ohio, and Michigan in handling
suburban traffic, as well as what we see at our doors, indicates what is coming from the advent of electrical transport, and what a tremendous asset ightly retained and developed, the people posses In the Niagara and other sources of electrical power
Including sidings and yardage, the trackage electrified by the Chicago, Milwaukee \& St. Paul Corporation will aggregate 650 miles, and in the elimination of cinders, ashes, water tanks, fuel storage, reduction
of noise and other important economics that appeal strongly to the travelling public, the undertaking is simply revolutionary and ppoch, making. The main power plant is located at Great Falls, Montana.

## After the War. <br> 炚 PETER MCARTHUR.

 Lime-sulphur wash is one of the things that does notImprove with acquaintanceship. of course I acknowl-
edge its virtues but I don't like it. This is the fourth season that I have handled the nozzle and I must say the wretched stuff smells as offensive to me as ever can't seem to get used to it., In addition I had severa resh scratches and "barked" spots on my hands and the way that stuff stung was a caution. opraying aimply had to be done. We put on the dormant spray as strong as the law allows and it seemed o have an unusual amount of pepiving every tree put it on as thoroughly as we could, giving the scale I have been told that if the dormant spray is delayed until the leafbuds are beginning to burst there is a good chance of killing the aphids. We waited until the swelling buds showed a tip of green, but that green
was not the green of the leaves. By no means. Under a was not the green of the leaves. By no means. was made up of myriads of young aphids that had mobilized on up of myriads of young aphids that had for the little leaves to open so that they could make their spring drive. During the past few years the aphids have I sprayed thoroughly with a soap and kerosene emulsion it did not seem to affect the critters when fulch them when they are as young and tender as they are just when they are as young the colution we squirted at them they can stand anything. By the way, I wonder if any of our boys at the front who have worked in orchards have thought how effective a spraying outfit with a plentiful supply of lime the wind in the right direction and a gor lime sulphur could be made as effective as any poisonous gas that could be used. I am afraid that If $I$ were on the firing line and anyone tried it on me I would be likely
cate of speed.

Those who are giving thought to the future are already discussing what shall be done with the returned ness by the closing of the munition factories. Even though the end of the war is not in sight, this kind of discussion is entirely proper. The after effects of the war will undoubtly cause more, hardship and suffering than the war itself. Nations, flicted. It does not seem at all probable that the end of the war will be followed by an immediate boom, in
all the leading industries, that will give employment to those who will need it. Wise statesmanship will than during the war. What the war calls for is generalthan during the war. as much as the work of the soldier does from that of the physician. The munition industry, while giving our normal industrial situation and few industries will be able to take up their work where they ere
those who are giving thought to the subject seem to be those who are giving thought to basic industry of Ca nada efforts must be made to promote its expansion so as to provide for those who will be idle. This seems reasonable but there may be difficulties in the way,
It is inevitable that agriculture must bear in one way It is inevitable that agriculture must bear and it is not entirely certain that the nations impoverished by farm products. Whether farming as a business will
profit by a sudden stimulation of this kind is open to question.

At the same time we must not overlook the fact
that it is from the land that the people can most readily that it is from the land that the people can most readily
earn a living. Few of the pioneers knew anything
about clearing the land or farming and yet they managed to wrest a living from the wilderness. Few of them made wealth, but most of them were able to secure what they needed in the way of food, bleter which those ing. If a plan could be developed
who must seek a subsistence could be trained and placed on the land without having to suffer the hardships borne by the pioneers it would be the quickest way to make them comfortable and indepene during the first few years, were instructed and helped during themselves and the added products that they would put on the mations. Wesides, the agricultural industry of the country would be gradually strengthened by this natural increase of the number of farmers who own their land and would taking their livings from it. There is back-to-the-land movement after the war, but unless it is handled wise
the situation.
I notice that many of those who are dealing with the subject favor the plan of having the farmers now on the land build houses for the accommodation of hired men and their families. This plan may prove
attractive to well-to-do farmers but many who need attractive to well-to-do farmers out many who need materials at their present prices, and the cost of conmaterials at their present prices, and so high Iouther could put up a house that would be comfortable both summer and winter for less than a thousand dollars. Few would have the money on hand for such an investment, and would
be obliged to borrow at a rate of interest that would add materially to the expense of employing a hired man. But even if the scheme were entirely practicable and if every farmer would provide for his help in this way I venture to hope that the problem will not be solved along these lines. The tenant and landlord system is one that I hope will never find a footing in Canada. our fathers came to Canada where they could get homes of their own. If we stimulate landlordism in any of its forms we will only be helping to establish in this country the evils that made the older land intolerable.
I would much rather see the present holdings broken I would much rather see the present holdings broken up into farms of more workable size so that farmers could get along with less help rathent supply of hired men. The landlord and tenant system inevitably breeds class distinction and we should view with concern any scheme that would tend to lessen the freedom and equality that has been unti now the boast of Canada. By all means let us get people on the land but it must be done in such a way
that they will. be free and independent. The quality of our citizenship is of much
any increase of our products.

## O. A. G. Examination Results.

The following is a list of successluu candidates at he annual O. A. C. spring

First Year, Maximum-2,500. 1, Shales, 2027; 2 , Campbell, 1924, 3, Hart, 1923
 Gowland, 1728; 11 , Barber, $1671 ; 12$, Kimball, 1640 ;
13, Oliver, 1611; 14 , Matheson, 1608; 15, Steckle, 1603; 16, Hardy, 1584: 17, Bateson, 1568; 18, Hodgins, 1559; Mason, 1514 , 22, Sthield, 1509 ; 23 , Surgenor, 1506



 Jones, 1323, ${ }^{1} 11$; 41,Crews, 1315; 42, Moore, 1312 Jones, $12 ; 43$, Sibbick, $1291 ; 44$, Allan, $1288,{ }^{*} 12,20 ; 45$,
Wadsworth. $1269 ; 46$, Patterson, $1267 ; 47$, Secord, Wadsworth, 1269 ; 46, Patterson, 1267; 47, Secord,
1260; 48, Karn, F. N., 1255, ${ }^{*} 13 ; 49$, Rutter, 1253 ,

 1154 *4, 12, 57 , Cook 1151 ; 58 , Milis 1092 ,
 63, Carr, 1027, 1

List of Subjects.
, English Literature; 2, Composition; 3, Arithmetic and Drainage; 4, Book-keeping; 5, Hydrostatics; 6 , Chemistry: 10, Geology; 11, Botany; 12, Zoology 13 Horticulture; 14, Field Husbandry; 15, Animal Hus. bandry; 16, Dairying: 17, Poultry; 18, Apiculture; 19, Vet. Anatomy; 20. Vet. Materia Medica.

## Second Year, Maxium-320

1, Cooper, 2381; 2, Logan, 2381; 3, Brenner,
2379; 4, Brown, 2353; 5, Snyder, E. S., 2349;
Heimpel, 2341.

 2228; 15, Sullivan, 2222; 16, Snyder, A. W., 2186;



 Knowles, 1925; Smith, 1942; 34, Hamilton, 1935; 35 , 38, Scott, 1828, ${ }^{2} 8$; 39, Walker, J.' L., 1821, *18; 40; Hawley, 1795; 41, Finch, 1765; 42, Lambert,
1750; 43, Lavis, $1740 ; 44$, Richards, 1722; E. 45 Moore, 1670, *22; E.46, Shaw, 1647.

List of Subjects.
1, English Literature; 2, Composition; 3, Public
Speaking; 4, Economics; 5, Thesis; 6, Surveying and Speaking; 4, Economics; 5, Thesis; 6, Surveying and Mechanics; 10, Organic Chemistry; 11, Soil Chemistry mology; 15, Horticulture; 16, Botany (Xmas) 17 Economic Botany; 18, Phy. Botany; 19, Field Huis bandry; 20, Animal Husbandry (Xmas); 21, Feedine and Man.; 22, Principles of Breed; 23, Live Stook 24, Horse Judging; 25, Dairying; 26, Poultry; 21 Eet. Pathology; 28, vet. Obstetrics; 29,

## Third Year, Maxium-2400

Third Year, Maxium-2400. 4, Slack, $1752 ; 5$, Evans, $1742 ; 6$, 1 , Davey, $1740 ; j_{1}$ Schurman, $1726 ; 8$, Guild, 1726; 9, Wigging, Nurdock, 1672; 11, Sutton, 1663; 12, Manto 10, Murdock, $1672 ; 11$, Sutton, $1633 ; 12,1641$; 15
$1661 ; 13$, Van Every, $1657 ; 14$, Selwyn, 1641
McKillican, 1622; 16, Clark, 1606; 17, Martin. 1604 McKillican, 1622; 16, Clark,' 1606; 17, Martin, 169 18 , Neff, $1571 ; ~ 19, ~ W a t e r m a n, ~$
1533; 21, Redmond, $1507 ; ~ 22, ~ M a r r i t t, ~$
2 Fleming, $1461 ; 24$, Hunter, 1452; 25, McConkey
1452; 26, Skinner, $1442 ; 27$, Merkley, 1318; 28, Mo
List of Subjects.
List of Subjects.
Speaking; 4, Economics; 5, French; 6, Heat; 7 , Meteor Speaking; 4, Economics; 5, French;
ology; 8,
, Cold Storage and Ventilation; 9 , Inorgatic Chemistry; 10, Qualitative Chemistry; 11, Quantitative Chemistry; 12, Organic Chemistry; 13, Geology; Crypt. Botany; 15, Plant Physiology; 16, Syst.
mology ; 17, Economic Entomology; 18, Bacteriolony mology; ${ }^{*}$ indicates subjects on which pass standing wio not secured.
Embargo Against U. S. Stock Removed.
We are informed by Dr. F. Torrance, Veterinity Director General, that arter May 1 , there
special restrictions against the importation of doode special restrictions against the importation of of tion
their parts or products, from any of the state their parts or products, from any of the States
Union. It will, however, be necessary for importen to observe the usual regulations of this Branch
under normal conditions govern these entries.


MAy 4, 1916

## THE FARMER'S ADVOCATE.

steers at 89 , to 89.25 ; choice butchers
cattle, $\$ 8.75$ to $\$ 9$. good, $\$ 8.25$ to $\$ 8.75$ cattle, $\$ 8.75$ to $\$ 9 . ;$ good, $\$ 8.25$ to $\$ 8.75$
medium, $\$ 7.75$ to $\$ 8 . ;$ common, $\$ 7.75$ to $\$ 7.15$; choice cows, $\$ 7.25$ to $\$ 7.40$ medium cows, $\$ 6$. to $\$ 6.25$; common $\$ 4.25$ to $\$ 5.25$; choice bulls, $\$ 7.50$ to $\$ 8$ good Ibulls, $\$ 6.75$ to $\$ 7$; common and medium bulls, $\$ 5.25$ to $\$ 6.25$. Stockers and Feeders-Choice de-
horned sters 800 to 950 lis., 87.75 to horne steers 700 to $850 \mathrm{lbs}$. , $\$ 7.25$ to $\$ 7.50$
8675
80 stockers, 600 to 700 lbs., $\$ 6.75$ to $\$ 7$.
Milkers and Sprinqers-Choice ers and springers at $\$ 80$ to $\$ 100$; good cows at $\$ 66$
8500 to $\$ 65$.
Veal Calves-Choice veal calves $\$ 9.50$ to $\$ 10.50 ;$ good, $\$ 8.50$ to $\$ 9.50 ;$ medium,
$\$ 7.50$ to $\$ 8.25 ;$ common, $\$ 7.50$ to $\$ 8$; heavy fat calves, $\$ 7$ to $\$ 8$.
Sheep and Lambs-Ligh
99ilto $\$ 10$; yearling lambs, $\$ 12.50$ to 814; heavy sheep, $\$ 8$ to $\$ 9$; spring lambs,
Hogs-Selects weighed off cars, $\$ 11.85$
$\$ 11.95$; fed and watered $\$ 11.65$ to $\$ 11.75$; and $\$ 11 \mathrm{f}$. o. b. cars.

## Breadstuffs.

Wheat-Ontario, (according to freights outside) ${ }^{\text {No. }} 1$ commercial, $\$ 1.01$ to
1.03; No. 2 commercial, 99 c . to $\$ 1.01$; No. 3 commercial, 96 c . to 98 c ., according to freights outside; feed wheat, 86c. to
88 c ., according to sample. Manitoba 88c., according to sample. Manitoba wheat (Track, Bay Ports.)
$\$ 1.25$;
No. 2 northern, $\$ 1.23 ;$ No. 3 (1.25; No. $\begin{aligned} & \text { Northern, } \\ & \text { 1.19. }\end{aligned}$ to 45 c ., according to freights outside; commercial oats, $42 \mathrm{y} / \mathrm{c}$ c. to 44 c . Man-
itoba oats
(Track, Bay Ports.) itoba oats (Track, Bay Ports.) No. ${ }^{2}$
C. W. 53 c .; 1 feed, 5 lc .; No. 1 feed, 50 c . Ryording to commercial, 90 c . to 91 c . 86c. to 88c., according to sample. Buckwheat-Nominal, 69 c . to 70 c . according to freights outside. Barley-Ontario, malting, 63 c . to 64 c ., according to freights outside; feice
barley, 59 c . to 62 ., according to freights American Corn-No. 3 yellow, $861 / 2$ c. track, Toronto. track, Toronto Peas-No. $2, \$ 1.65$; sample peas according to sampe, $\$ 1.30$ to $\$ 1.50$
Flour Ontario, winter, $\$ 4.20$ to $\$ 4.30$,
The track, Toronto, $\$ 1.25$ to $\$ 4.35$ bulk
seaboard; Manitoba flour-Prices
at second patents, $\$ 6$, inst jute; strong bakers', Hay and Millfeed.
Hay-Baled, car lots, track, Toronto,
No. 1, best grade, $\$ 20$ to $\$ 21$; No. 2 , per ton, low grade, $\$ 15$ to $\$ 18$.
Straw- Baled, car lots, $\$ 6.50$ to $\$ 7$ Bran - $\$ 24$ per ton, Montreal freight;
shorts
$\$ 26$ shorts, $\$ 26$, Montreal freights; middlings,
$\$ 26$ to $\$ 27$; Mqntreal freights; good feed four, per bag. $\$ 1.60$ to $\$ 1.70$, Montreal freights.

Country Produce.
Butter-Prices remained stationary on
the wholesales during the past week Creamery, fresh-made pound squares,
34 c . to 35 c ; creamery solids, 32 c . to 33c.; separator dairy, 32c.
Eggs - New-laid eggs
also remained about stationary, selling at 24 c . to 25 c .
per dozen. Cheese-18c. to $193 /$ c.
Beans-Primes, $\$ 4$.
Poultry (live weight)-Chickens, 18 c . to 20 e. per 1 lb .; fowl, heavy, 18 c . per lb, lb,
fowl, light, 16 c . per lb.; ducks, 18c. per lb. ; geese,
young, 20 c .

Hides and Skins.

to $\$ 1.95$ per bag. There are very fe
Ontario's on the market. New Potatoes are beginning to come
in freely from Florida-selling at $\$ 3.25$ per hamper and $\$ 10$ per bbl.
Old carrots have
as the new ones are taking thendency the old now sell at $\$ 1.10$ to $\$ 1.15$ per bag the new bringing $\$ 2$ per hamper.
Hot-house Rhubarb has beer tremely scarce, and now sells at $\$ 1$
$\$ 1.10$ Hot-house Cucumbers
ton are coming in, in large quantities and have declined to $\$ 2.50$ per 11-quart basket for the best, and range from that
down to $\$ 1.50$. The Florida's selling at down to $\$ 1.50$. The Florida's selling at
$\$ 5$ per hamper (about 100 cucumbers). 85 per hamper (about 100 cucumbers).
Strawberries are now coming in by the car lots from Lowisiana, and hav declined to 20c to 23c. per box
California cherries
first time this season on Tuesday, selling at $\$ 5$ per 10 lb . box, and have now de
clined to $\$ 4$ per box,

## - Montreal.

Supplies of choice cattle on the loca,
cattle market were light last week cattle market were light last week,
and, as demand was lairly good, the and, of deme market was firm. There
tone of continue to be the situation for some time to come. A few good steers sold was around 8c., for the general range wore none too good. Medium stock ordinary, grades brought 63 c. ., to 7 c , Butchers' cows ranged all the way to choice qualities, while fine bulls sold as high as $81 / 2 \mathrm{c}$, and ordinary stock
around 7 c . per lib. Supplies of calves were liberal, and these are taking the Clace of other meats to some extent and lower grades at 4c. to c. per per li,
Spring lambs are becoming more plentiSpring lambs are becoming more plenti-
ful, but prices continued firm, being $\$ 4$ to $\$ 8$ each. Yearling lambs and
old sheep were very good demand at around $113 / \mathrm{c}$. to to 12 c . per llb. for yearlings, and $71 / 2 \mathrm{c}$. to $81 / 2 \mathrm{c}$. tinued firm, and select lots changed
hands at 12c. to fractionally higher hands at 12 c. to fract
per lb, weighed off cars.
duller last week and for horses was very few animals have been changing hands. A few common animals were purchased by farmers. Prices continued
unchanged, as follows: Heavy draft horses, weighing 1,500 to $1,700 \mathrm{lbs}$., $\$ 250$ each, while draft horses, weighing 1,400 to 1,500 los., werl harse $\$ 100$ to $\$ 125$ each, and culls $\$ 50$ to $\$ 75$ each. Occasional sales of fine saddle
and carriage animals were made at $\$ 200$ to $\$ 250$ each. Dressed Hogs.-The market dressed hogs continued steady uncer good
demand. Supplies continued practically unchanged, prices were very high, being
$161 / \mathrm{cc}$ to $161 / \mathrm{c}$. for abattoir-dressed, fresh-killed stock.
Poultry.-Dealers continued to quote to 24 c . for chickens, and 17 c . to to 19 c . ducks. Potos - Offerings of potatoes Potatoes-Offerings of potatoes
creased slightly and were rather
 per bag of 90 10c., ex-track, to 20 c . in excess of these Honey and Maple Syrup.- Receipts of maple syrup have beend somewhat
larger of late, and demand was quite active. Prices were showing, very
little chance, quotations being 85 c . little change, quotations being 80 c . to
95 c . for 8 -lb. cans 81 to $\$ 1.10$ for $10-\mathrm{lb}$
cans, and $\$ 1.25$ for $13-\mathrm{lh}$. cans. Some very, choice, large tins brought $\$ 1.40$ to
$\$ 1.45$ each. Maple sugar sold $\$ 1.45$ each. Maple sugar sold at 12 c .
to 14 c . per 1 b . Honey was steady at $141 / \mathrm{cc}$. to 15 c . per 1 bb . for white clove
comb, and 112 c . to $12 \mathrm{I} / \mathrm{cc}$ for extracted
12 c . to 13 c . for brown clover comb 12c. to 13 c .
and 10c. to 1 c for extracted. Buck-
wheat honey was 9 c . to 10 c . per lb. wheat hony woies came along freely,
Eggs-Suplies
the demand was large, and, as a consequence, prices doz. on large lots.
being 255. per diter
Butter. - Supplies of new creamery are now increasing every milk,
and the quality is good, so that prices
for this quality, while lower than al
week ago, were higher than those for week ago, were higher than those for
finest held creamery. The best new milk goods sold at 31c. to $311 / 2 \mathrm{c}$. per di, while fine stock sold around 30 c .
Finest held creamery could be had as low as 30c. per l., with good at
$291 / 2 \mathrm{c}$. Second grades of creamery were quoted at 26 c . to 27 c ., and dairy butter
Cheese.-The market was lower, being
18 c . to $181 / \mathrm{cc}$. for finest, and 1717 yc c. to
$173 / \mathrm{cc}$. for fine, undergrades being 17 c . to $171 / \mathrm{cc}$. per ll.
Grain.
been firm of late, and dealers quoted has the vicinity of $\$ 1.05$ to $\$ 1.10$ per bushel
for No. 1 commercial white winter and car lots. Oats were decidedly firm and prices were higher, being 54 cc . to
$54 / 2$ c. for No. 2 Canadian Western, car lots, 53 c . for No. 3, and No. 1 extra feed, $523 / 2$ c. for. No. 1 feed and
$511 / 2$ c. for No. 2 feed. Onterio Quebec No. 2 white oats were 51 I/c: No. 3 being $50 y / 2$ c.,
per bushel, ex-store.
$\$ 6.60$ per barrel market was unchanged at $\$ 6.60$ per barrel, in bags, for Manitoba
spring
wheat first patents; $\$ 6.10$ for seconds, and $\$ 5.90$ for strong bakers.
Winter wheat Winter wheat patents were $\$ 6$, and
straight rollers $\$ 5.30$ to $\$ 5.40$ per barrel straight rollers $\$ 5.30$ to $\$ 5.40$ per barrel,
in wood, and $\$ 2.45$ per bag for the latter in wood, and $\$ 2.45$ per bag for the latter.
Hay.-The market was steady at $\$ 21.50$ to $\$ 22$ per ton for No. 1 hay,
$\$ 21$ for extra good No. $2 . \$ 20.50$ for No 2; $\$ 19$ to $\$ 20$ for No. 3, and $\$ 18$ fo clover mixed.
Seeds. - Demand was active at $\$ 10$
to $\$ 15$ per 100 lbs . for timothy; $\$ 22$ alsike, Montreal.
per lh . - Prices were steady at 30 c .

skins; $\$ 2.50$ to $\$ 3.50$ for horse hides
$11 / 2 \mathrm{c}$. to $21 / 2 \mathrm{c}$. per lb . for rough
and 7 c . to $71 / 2$. for rendered.

## Buffalo.

Cattle.-Prices on shipping cattle
eased off somewhat last week cased oif somewhat last week, dropping
top weighty steers-from 1,500 to 1,600 lbs.-to $\$ 9.75$, several loads having brought this price, A. 1 grades of butchering cattle sold a dime to fifteen cents
higher. Demand was strong in all divisions. Canadians sold very high cluding a small number of well finished steers, several on the plain, commonis order and four or five heifers, landing
at $\$ 8.90$. Good Canadians are quoted at $\$ 8.90$. Good Canadians are quoted
above nine cents. Yearlings-both steer and heifers, sold up to $\$ 9.25$ to $\$ 9.50$ and best handy butchering steers general selling around $\$ 8.75$ to $\$ 8.85$. As the trade for the week progressed, however
prices eased off some, as the result of heavy runs in Chicago. Sellers generally are taking a a avorable view for the trade
right along now, belief being that the be none too many of the ral choice grades, in either the weightier or handy
cattle, to meet the demands cattle, to meet the demands. Stockers
and feeders are bringing good, strong prices, 700 to 750 lbs., feeders of good
and uniform quality, selling up to $\$ 7.75$ to $\$ 8$, and with the grass getting in condition for grazing, grazing cattle are ceipts last week were 3,800 head, as
against 3,975 for the previous. week, against 3,975 for the previous. Week,
and 4,00 head for the corresponding week last year. Quotations:
Shipping Steers.-Choice
natives, $\$ 9.40$ to $\$ 9.75 ;$ fair to good,
88.75 to $\$ 9.155^{\text {; }}$ plain, $\$ 8.40$ to 880 , very coarse and common, $\$ 8$ to 88.25 ; best Canadians, $\$ 8.75$ to 89.25 ; fair to
good, 88.25 to 88.50 ; common and plain good, $\$ 8.25$ to
Butchering Steers.-Choice heavy,
$\$ 8.75$ to $\$ 9$; fair to good, $\$ 8$ to 88.50 , best handy, 88.85 to 89.25 ; common to
good, 88 to $\$ 8.75$; light, thin, 87.50 to $\$ 7.85$ Y Yearlings, prime, $\$ 8.75$ to $\$ 9.35$;
yearlings, common to good, $\$ 8.25$ to 88.65. Cows and Heifers.-Prime weighty
heifers, 87.50 to 88.50 - best handy
butcher heifers, $\$ 7.75$ to $\$ 8.25$; common butcher heifers, 87.75 to 88.25 ; common
to good, 86.50 to 87.50 ; best heavy fat cows, $\$ 6.50$ to 86.50 ; good butchering
cows, $\$ 6$ to $\$ 6.50$; medium to fair, Canners $\$ 3.5$ cutters, $\$ 4.25$ to $\$ 4.75$
Stockers and Feeders. - Best ${ }^{\text {" }}$ 'feeders
$\$ 7.25$ to $\$ 7.50$; common to good, $\$ 6.50$ t
$\$ 6.75$. $\$ 6.75$; best stockers, $\$ 6.50$ to $\$ 8.50$ to
common to good, $\$ 5.75$ to $\$ 6$.

Bulls,-Best good butchering; $\$ 6.50$ to $\$ 36.25$
Hogs.-Market last week on all brades pretty uniform a good clearanice was had from day to day. Demand for good hogs, which are getting scarcer right along, is most
urgent and anything on the urgent and anything on the weighty
order is oufsellity the order is oufselling the lighter gradee by
from ten to fifteen cents. Most of the good hogs offered last weelk. brough $\$ 10.25$ and the lighter grades, hog running from 150 to 180 pounds, sold
from $\$ 10.10$ to $\$ 10.20$, bulk going around $\$ 10.15$. Pigs the fore part of the weel brought up to $\$ 9.35$ and the low day for weights was Friday, when bull $\$ 9.15$, and stags mostly $\$ 7.50$ down. Receipts last week reached approximate head for the we compared with 23,939 head for the week previous and 25,000 Sheep and Lambs. WMarket showe downward tendency last weet and whil some lots got fairly good action, any thing weighty proved as bad a sale as any weighis time this year, Choice lamb weighing around $u$ and 100 pounda hy as much as 81.50 to $\$ 1.75$, and they were slow to find sale at that. Monday and Tuesday were the high days for clipped lambs the past week at $\$ 10.25$ buk of the handy lots went Wednesday not many sold abor 1000 Thursday bulk went at $\$ 9.90$ and $\$ 10.00$ and Friday with the trade stronger, one load reached $\$ 10.25$ and the balance of the most desirable kinds swent at
$\$ 10.00$ and $\$ 10.15$. Choice lambs weigh ing around 90 pounds sold at 89.00 and as $\$ 8.50$. Cull lambs showed a wide range selling from $\$ 8.50$ down, skipe
as low as 85.50 . No yearlings the pate week brought above yearings the past sheep sold from $\$ 7.75$ to $\$ 8.00$ and ewee wool lambs were here the past weels and they sold at $\$ 11.50$ and $\$ 11,60$. Receipts last week were 21,900 head, as againat
21,267 head for the previous week and 16, 150 head for the same week a year ago. tive and prices held steady, Bull fair grades landed at $\$ 9.25, \$ 9.50$ and 39.75 and culls went from $\$ 9.00$ down. Receipts last week reached around 4,300 head, being against 5,943 head or the week before and 5,700 head for

## Chicago.

Cattle.-Beeves, $\$ 7.85$ to 89.85 ; stòckers and feeders, $\$ 5.80$ to $\$ 8.60$ cows
and heifers, $\$ 4$ to $\$ 9.20$; calves, $\$ 6.25$ to $\$ 8.25$

## H0. Hog .-Light, $\$ 9.50$ to 810.10 ; mixed

 \$9.15.
Sheep.-Native, $\$ 6.65$ to $\$ 9.10$; lambe native, $\$ 7.50$ to $\$ 11.65$
$\underset{\text { May }}{\text { Sale }} 11 .-$ Datose ${ }^{\text {Sir }}$ H. M. Meimed. Marie, King, Ont.i $\begin{gathered}\text { Holsteins. } \\ \text { May } 17 .-A . ~ C . ~\end{gathered}$ Hardy, Brockville, Ont.; 10 .
June
Miller,
10,.
Olora,
Ont.;
On May 17 the public will have an
opportunity of securing high-class male opportunity of securing high-class male
and female animals from the noted herd of A. C. Hardy, Brockville. Seldom are so may females showing excellen
quality and high records for both mill and butter fat found in one herd. Amone the offerings at this sale is a yearlin bull which is a good individual with excellent breeding, being a grandson o May Echo Sylvia, the cow that has 4
pounds butter and 1,005 pounds to her credit in seven days, which is 85 pounds higher than any other cow. Her best day was 148 pounds of milk. At the end of 30 days this splendid cow has started at a 43 pound rate and has been keeping ap oove of poekss. The
per day for a couple cows offered are, or will be by the date of the sale, bred to one of May Echo
Sylvia's sons. This will be the only chance to get this blood direct as these bulls will not be open to the ygenera public for a long time. Parties wanting ittend this sale. See the advertiscment attend this
in this issue.

## MLIFE-LITER ATURE \& EDUCATION

Who-Sleeps?
(By Eleanor Alexander, in the 'Times, London.)
Midnight and England; in the curtained Shadow Shadow upon grey shadow creeps
Till black, all conquering, dominate And theom,

Who sleeps-the bride? She girt him for the fight
Gay when her happy warrior went, Now empty arms she stretches to the With pa

Who sleeps-the old man? Up the windHe sweard a breet batalion come And all night long his weary worn old fee Keep measure with the drum.
Who sleeps-the mother? Immemorial throes
This hour, it may be, her beloved goes Undaunted into death.
Who sleeps-the barren woman, for her breast
Passion, nor pain, nor rapture stirs? She wake,

A thousand sons are hers
On desolated far-off fields, who sleep?
We know not, but through summe green, The flag of England clean.
Who sleeps faint and forsworn, no Between the trenches' snarling lips; Not one on guard where moonlit waters Under the battleships.
They sleep not for whom furnace smoke clouds roll,
Nor they who forge for England's caut
Armor laid on the anvil of her soul And hammered out with prayer.
Who sleeps-your God on His eternal And Zill, falls, and Rachel weeps? Captain of hosts and our salv
He slumbers not nor sleeps.

## Travel Notes.

Geneva, Switz., Feb. 10, 1916. Switzeriand has donned a nurses cap
and apron, and is going to take charge of and apron, and sick soldiers from the
two thousand
prisoners' camps in France and Germany. A great many of these soldiers hav already arrived and are in in localities especially suitable to their particular disease. Quite a number or French
soldiers suffering from nervous dis sorders and stomach troubles are located at Montreux, and also in several oflier places in that section. Shose afficted with tuberculosis are supplied with every tion, and get the benefit of the glorious cases the German soldiers are sent to German Switzerland, and the French soldiers to French SWitzerland. The
tubercular German prisoners are sent to Davos, in Both of these places are very high, about five thousand feet, and well equipped with modern sanatoriums. French soldiers at Leysin is described by a Geneva newspaper what in this style:-

It is 5.30 in the morning, still" and cold. In the moonlight one can see dark figures in the streetsoof Aigle, and in the open space near the station. Some are Walking, some are standing in groups. All are waiting. In another hour the imagine that in such a little village there could be so many people. They move here and there; they talk together in groups; they regard the cloudless sky studded with twinkling stars, and one says, 'It, will be a beautiful day for the ascent!'
The train arrives. The French soldiers descend. The people burst
thusiastic cheers and crowd around them giving them flowers, and little flags, and cigarettes and chocolate and fruit. The walk with them to the hotel, where a
luncheon has been prepared for the luncheon has been prepare
invalids by the Red invalids by the Red Cross.

The Mayor welcomes them with a few cordial words, and they ake tables
places around the flower-decked table places around the fower-decked tathes They look pale and exhausted, and ther presses one especially is their attitude of docility. Their emotion, their joy, does not express itself in words. They seem
stunned. Seventeen months of captivity stunned. Seventeen months of captivity
in Germany has deprived them of their in Germany has deprived then will return. Oh, yes, without doubt.
wo, will they send us back to Germany? asked one.
"Yeeks."
Thus did the villagers cheer up the invalids.
The soldiers received so many presents that they could not carry them, but were obliged to leave them at the
sent up to Leysin afterwards.
At every station along the route up the mountain enthusiastic natives were waiting to welcome them and bestow upon them more presents. Chocolates and cigarettes continucd to rain. Just before we reached Leysin the sun burst through the clouds in dazzling brilliancy. The cars weye foded the daylight revealed alas! the haggard faces of the suffering soldiers, the tears gleaming in their eyes. Many of -them had never seen snow capped mountains belore, and were filled with wrow the glistening vast slopes or snow and the glistenin The sound of a bugle! Up leaps every soldier. They crowd to the windows, and what do they see? A little boy,
standing all alone on a high rock, tooting a welco on his trumpet
"Ah," said one, "It's a long, long time since we have seen anything like that,
I have a little boy-in France. I wonder -and his yoice trailed away to a mere whisper-"if- I- will ever see him -again
The station at Leysin. A crowd of
shouting people. They cheer. They


Leysin, Altitude 4,500 Feet.
than that," we say. "You must have the best of care, plenty to eat, and a long,
long rest. No, no, they will not send you back to Germany. Switzerland will The villagers escort the soldiers to the funicular station, carry their parcels and
their bags, give them presents and press in every way their sympathy and
encouragement. Don't worry. You will soon get well "Here, take these cigarettes. You can tuck them away in some corner.
"Oh, you won't find it dull up there."
wave the flags of Switzerland and of
France. National Anthem. A plays the Swiss women sing the Marseillaise. The Mayor
of Leysin and the French Ambasal of Leysin and the French Ambassador
speak a few words, but all the official ceremonies are made very brief owing to At the hotel the big dining room is decorated with flowers and flags and
portraits of French Generals, and the soldiers sit at the table while their names are being called. The French Ambassador is shown the bedrooms, all white and full
of sunshine, with good beds rolled out on the balconies.

Our guests are already accustomed to their new life. They did not expect to find it so warm away up on the mountait heights. They are not so sad and de pressed as they were. They are getting
back their French spirits. Good food, back their French spirits. Grood food, ave done wonders for the
But what impresses them more than anything else if the atmosphere ond sympathy and affection which surround made of their coming a festival. The sick children at one of the sanatorium have asked to go without dessert for a week so that they can buy something to give to the sick French soldiers. On little invalid of four years insisted 0 sending them his Christmas elephant as new." Another small boy contributed all the pennies in his bank
The French soldiers spent their first day in Switzerland in making up packages of presents, from the vast collection of articles they themselves had received, to send back to their comrades in the prison huge basket of oranges to the children at the Children's Sanatorium

March 6th.
Winter and Spring are having their annual March squabble and, as a result land. One day we slosh around in rubbers under dripping umbrellas; the next day all the world is white with snow and we are feeding crumbs. to the hungry birds. The air is full of sneezes and coughs and microbes and the wails of the afflicted. Everyone who
isn't down with the Grippe, is either just getting it, or just getting over it: mean day. It has been raining and snowing and sleeting and blowing all day long. And so dark! Gloom withsneezed six times in succession and consequently is full of morbid fore bodings. Knows she's getting it. Uncle Ned has rheumatism or gout or something twingey in his foot and his temper is not angelic. He has been By Joveing and By George-ing, and Confounding, and sending things to the Dickens all day long. He says he s is mig the isn't a centipede-that one foot gives him quite trouble enough. seemed such a tragedy, and my room so like a prison cell, that I fled downstairs to the lounge to console myself with a cup of tea. Someway a good hot cup a tea always seems
There were only a few people in the lounge, half the house being laid up with was in Corner. He was sprawled out in a big, leather arm was sprawled out in a big, hand, a letter in the other, and on his face was a large-sized grin. He glanced up at me over his eye-glasses and pointed him.
in "Say, what do you think!" he began, had a birthday present. And what do you think Iay present. And what a real, original, hand-decorated poem, He held up the letter for me to look hummer all right. It's from that little American chap who was here a fell months ago. Remember? Had pnew
monia. Nice boy. One of his lungo monia. Nice boy. One of him up to Leysin. Pretty tough on a kid to get shelved like that. I've been sending him American Magazines every he's weeks to cheer him up a bit This is his birthday along fine now. discovered when he was here that we both had the
to-day, and I ame tiy, how many years He tooked at me inguiringly, but did ot give me time to apower. I was glad "Fifty-six, he said. "Fifty-six to-day. And the little chap has remembered it. I call that pretty decent or him, dots a white thatch on his head e appreciates all these little attentions The older a man gets the mote of a kid e is in some ways. Likes to be petted and fussed over. Now that kid probably sat up nights getting this thing up. Look at the sketches around the margin. He is certainly some artist, that boy. look at the sketches afterwards." i poured out a cup of steaming and he adjusted his eye-glasses and began:-
"The Germans love their Fatherland, is why, when 'tis a Fatherland
'Germania is a Woman.'
The English love their Motherland, But what I cannot understand,
why, when 'tis a Motherland
And we, we love our Uncle-land, Who To those who need it.

And next to our loved native land Its valleys and its mountain
velleys and its mountains grand
it has been our Refuge-land
From it the warring world we've scanned And so we say: "Vive Switzerland!"
"' Now, what do you think of that for a boy of sixteen. And look at the clever way he has worked in these sketches around the verses. Look at Germania standing up there proud and pompous! Look at old John And Uncle Sam in his striped whiskers! and star-spangled tail-coat! And that Swiss flag waving across the know, I'm just tickled to death over a poem. Fact! And ever received little soem. Fact kid went to to think that for an cld codger like me! I tell you I appreciate this. It means a lot And someway I began to feel good all over too. have been the tea? or
Could it hat

## Hope's Quiet Hour.

Suffering With Us.
Himself took our infrmities, , and
bare our sicknesses.-S. Matt. viii: 17 . Thus everywhere we find our suffering And where He trod Uplifted higph: the Cross on Calvary Beams on the ma

To the open fight. still wrestlings of the lonely He doth impart
The virtue of His midnight agony.
Yesterday a sick woman in the hospital said to me: "Oh, I wish
you had come yesterday. I
wanted ou to talk to a patient who has just not believe in God, because He permitted che yood people in Belgium to be lootured and keopled.
The difficulty is not a new one. and he had cleansed his heart down in in innocence, trouble came faith in Gim. If we are to lose our faithful children to be persecuted and cilled, we don't need to think only o the sufferings of this present time. From
the time of righteous Abel we find innocent people tortured, not accepting better resurrection. might obtain a trial of cruel mockings and scourgings sawn they were stoned, they were tute, afflicted
I am not able to Our Lord has told us that there are things done by Him which we do not understand now, but we shall know to the question, Satan's another side Job was: "Doth Job fear God for haught." His righteousness was being paid for by prosperity, God had de-


One of the Big Sanatoriums at Leysin
Every room has a large balcony and gets the sun all day long.
> the work of his hands, and increased his possessions so that he was the
greatest of all the men in the east If righteousnese always enriche cast. shielding them from pain and sorrow, it would be a splendid investment from a worldly point of view.. Faith would soon decay from want of exercise,
for we should never need to trust God for we should never need to trust God and easy road ahead. Other virtues patience, courage, endurance, etcwould never have a chance to grow. We should live our lives on a low level, if untroubled comfort and ease were I know the the ordinary sufferings gap between


Some of the French Soldiers at Leysin.
All of these men are seriously ill with consumption.

## and the awful misery now being, caused

 said, the explanation is one we must wait for. GodHiw own time
In the meantime we are not left to grope our way in utter darkness God has come down to earth to walk beside us and suffer with us. Those The Son of God was made sin for us (2 Cor v:21) sharing our infirmitie that we may share His righteousness.

Why did their mighty Friend weep
with the sisters of Lazarus? He was about to change their sorrow into joy, why should He weep instead of smiling over their coming joy? His evident sorrow made the Jews exclaim, "Be-
hold how He loved him!" Even then they were puzzled to understand why his Man, yes of the blind, had not interfered They had appealed to Him in their need had appealed to Him in their until it seemed too late. Why did He weep? I think it was because He suffered with the heart-broken sisters. He knew their pain would soon be turned into joy, but He shared the why should thange their sorrow into his were puzzled to Who was

And He shareth in our gladn,

How often we read in the Gospels that-our Lord "had compassion" on a sufferer. He or she might be approach multitude nothing could be one of a Lord's compassion. Now that word compassion," is one we use lightly very often, forgetting its full significance. It really means suffering together." We say we have compassion on a anferer when we are sorry for him and ready to do something to ease his infinitely greater than that. He "suffers with" each child of His love.

## 

given comfort-loving mortals were sweep pain and sorrow from this eagerly Our precious school-time-the time for learning difficult but priceless lessonswould become a long, (and probably tedious) vacation. Self-indulgence would replace heroism, and God's children grown man, unto the measure of the stature of the fulness of Christ." Did it ever strike you that God is better able to guide and govern His own world than we are? We pray, but too often our prayers are presumptubest, and then question His wisdom and love when a harder lesson is set instead of the holiday we are demanding We call ourselves "soldiers of the Cross" resolving to follow our Master to the death; and then we make a fuss over trifing discomion wis To be on the Cross means to be beside our Lord. If' we enter into the fellowship of His sufferings, He is also sharing ours. Our forgetfulness of Him does not drive Him away. As the soldier in the trenches said:

Though we forgot You-You will not We feel so sure You will not forget us, But stay with us until this dream is past. And so we ask for courage, strength, Especially and pardon-
Especially I think we ask for pardonAnd that You'll stand beside us to the last:'

You notice he did not ask to escape hardships or death. In fact, the motto we used to see everywhere-"Safety first! -does not inspire us with much growing a little ashamed of our prayers for our own comfort, safety and prosperity. What should we think of a soldier who pleaded to be stationed as far as possible from the danger line? What should we think of a soldier who lost all confidence in his
commander as soon as he was ordered forward, away from the comfort and

THE FARMER'S ADVOCATE










safety of the barracks? We are called to endure hardships as good soldiers
of Jesus Christ, and He is with us as our Captain.

## Fashions Dept

How to Order Patterns. Order by number, giving age or
measurement as required, and allowing at least ten days to receive pattern. Also state in which issue pattern appeared. Price fifteen cents PER PAR
TERN. If two numbers appear for TERN. If two numbers appear for
the one suit, one for coat, the other the one suit, one firt, thirty cents must be sent.
for skir
Address
Fashion Address Fashion Department, "The
Farmer's Advocate and Home Magazine," London, Ont. Be sure to sign your name when ordering patterns.
Many forget to do this. When ordering, please use this form:Send
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Country.
Province.
Number of Pattern.
Age (if child or misses' pattern).
Measurement-Waist...........Bust.
Date of
peared.
Owing to the fact: that expenses on fashion. cuts wh have been the price of patterns to 15 cents per number.



8585-Blouse, with or without bolero. Bust 34 to 44.


TheBeaverCircle

## Our Senior Beavers.

 [For Beavers from Senior Third Clam . to Junior High School Form, inclusives
## A Bird Garden.

E Dear Beavers,-I heard to-day abour a garden for birds, so thought you belongs to Mrs. Elizabeth Grinnell, Pasadena, California, and in it sh spends many a happy hour, watching her dainty little friends and hearin out that they are safe there, and the like the spot; indeed some of then have grown almost tame, and one actual ly so tame that it delights to come down and light on Mrs. Grinnell's head This garden is, of course, full trees, and part of it is covered with long grass. All about, too, have beep planted trees and shrubs bearing fruit and seeds that the birds love to eat, with plenty of sunflowers; and here and there among the branches little bird-boxes have been placed.
one stand a shallow basin, is kept of water, and there the birds love to congregate, drinking and splashing at their own sweet will. During the nest. ing season Mrs. Grinnell hangs bits of string and threads about on the treess and oiten has them off to build theif nests.
I do not know whether she has ever watched to see which color is mer
favorite, but I head of another womat who hung out strings of various oolora, then watched to see which would be carried off first. M ere chosen, the red and light gray were chosench. And now, Beavers, what do you think wai the reason for this? Were the birde possessed of a dainty taste which led them to reject the gaudy colors did they know that their nests conspich: ous, and perhaps attract enemies to them?
Speaking of bird enemies, I suppose you know that snakes, cats, and red squirrels are about the worst young
mice will destroy the eggs and birds in the nest. Julian Burroughsa son of dear old John Burroughs, of whom perhaps some of you knowinvented a sort of bird-box wwich quite safe, and tells about it
"It is a very simple matter. Get a hollow limb or make a box or weatier. beaten boards, close two-inch opening tight, and The cavity inside should be about three inches across and four or five inches deep. Nail or wire the box to a post set securely in the opem on it from above. Then stop every. thing from coming up the post by a se the of tin or an old pan this result is best accomplished post. This result " in the tin and shoring the post through; then nail flaps of the " X to the post. 1 hope our boys and girl are watching the birds this summer, and learning they make friends of the but if you sit perare very shy at and, fectly motionless under the trees, an fectlyuite still in a hammock, some of them will be likely to come quite clos. to you, so that you can see their foliting ing and watch their odurius, and like ways. They are very co yous, see what to come close enough to you If you are kind of a creature you are. .
very gentle in your movements and take care not to frighten them they 500 gain confidence in you.
I wonder if any of you have a good field-glass in your home. If so sorching will find it just the thing for wet, but hope to some day.
Senior Beavérs' Letter Bos. Dear Puck.-This is my second letter to the Beaver. Cirlis thirty miles is near a lake which is the summer time. I can swim with water wing a little. In the winter-time the late is frozen over, and when there is not much snow on it the boys
to state which run on cime; their na have one big de about on about two m
home. I gu home. I gu letter does no

Magog, R.
man.
new master
He always lik
He always lik
that one day
I was left be
over the das
shouting a la
stand.
After a wh
another horse
day he went

coe road un
sudden he on
smashed all
My master to
was left to
Age 14,
Jerseyville
Dear Puck
of 13 years of
I go to the s
the milk, for
On Saturdays
or drive $m$
and I do
stick to steer
on my sledge
a long distanc
a long distanc
up with hims
then I get a I
come out and
to skate. There are two big boats \#hich run on the lake in the summertake," and "The Anthemis." We hive one big Collie dog which draws afe about on my sleigh. Our school is about two miles and a half away from home. I guess 1 will close, wishing letter does not get too near the w. letter does not get too near the w.-p. b.
MARGARET ALLEN. Magog, R. R. No. 3, Que.

Dear Beavers.-I have read the letters in "The Farmer's Advocate" for Wo years. 1 am a girl 14 years old, pounds. I don't think there are many girls as stout or weigh as much. I any of the chores outside. I have not ten when I left. I work all the time in the house. My mother died when I was five years old, and I came from England four years ago this April. have no pets, and I don't care much bout animals. Isn't this war terribie? had a letter from Liverpool, Eng., lepps are getting quite dangerous. Well, I hope that w.-p. b. isn't empty. Here is a riddle:
How many feet has forty sheep, the shepherd and his dogi.
Your Gipsy story arrived too late
Dear Puck and Beavers, - I am going ow write you a story called "The advenNot many years ago I lay in a large factory all in pieces. After a while men came and put me together. When that was hinished 1 twas felt good over it. After this I was noved to a store-house where other I was not in this place long when a nan came in and bought me. He look me out and hisched me to a ine horse. As long as I was in the reached it was all right, but as soon as I
the mud roads I bounced eround quite a bit. I went quite a way before I reached my new home. My new home was a large barn, and had a good cement floor and was dry. n a intle attic above could see all kinds of trash imaginable, old churns,
bits of glass and other rubbish. I went out for a drive quite often, because I heard people say that my owner was a township councillor. Then I knew why that I had gone out so often. Some of the roads were very good and some were very rough. Many times was washed off when I got home After a while I was sold to another man. Now my troubles began. My new master had a high-spirited horse. He always liked to run. He ran so fast and finding I I was left behond not come over too over the dashboard like a shot and shouting a language I could not underAfter a while my master came with dather horse and drove home. Next gone far when out again. He had not This scared the horset and automobie. the road until my wheels spun like cops. sudden he struck a then all of a smashed all of me but the wheels My master took all that was any good was left to put me in a corner, and (Age 14 1st George Howell. (Age 14, 1st Form High School.)
Jerseyville, Ont.

Dear Puck and Beavers,-I am a boy of 13 years of age, and live on a farm.
go to the station every morning with On milk, for we ship it to Montreal or drive my play with my lamb and 1 do not have lines but stick to steer him by. In winter I let on my sledge and he will draw me for 1 a long distance without stopping. Then up with his halter barn and tie him then I get a pail of and clean him off; his hay and grain. After fuper him come out and bed him for the night.

In the morning I take care of him, then I go and get ready for church, paper, which is "The Farmer's Advoread it, for it is so full of nice reading Waterloo, Que Weldon Taylor.

Dear Puck and Beavers,-This is my first letter to your charming Circle. I have about two miles to go to school, enjoy going to school. I have a dandy sled called "Red Wing," and I take it along with me to coast down the hills teacher's name is Miss ones. My and she is just lovely. We had lots of snow around here. I have a little black curly dog called Hunter; he is a dandy partridge dog. My home is a Districe District. In the good old summerand paddling the canoe. I think this a very cruel war. I shall be glad when the Allies win and it is all over. know so many boys who have gone France and I wish I was big enough to go too. I wish some of the Beavers would write to me. I will close wish ing the Beavers much success.
(Age 11, Bk. IV.)
Huntsville, Ont.

## Honor Roll.

Honor Roll.-Larmour Noblet, Freda Honor Roll.-Larmour Noblet, Freda
Schause, May Trevor, Gertrude Smith, Schause, May

Beaver Circle Notes.
Frances Mercer, Lower Flodden, Que., As so very few kept up their gardens in the Garden Competition last year, no competition will be held this year; but we hope the few Beavers who are interested in gardening will go on with -
Letters written by Edith Smibert and some others had to be left out because written on both sides of the paper.
Paul Flynn (age 10 Sr .III) R R. Colborne, Ont., wishes some of the Beavers to write to him. Also Joe B.
Cookson, (age 11), Huntsville, Ont.

## Our Junior Beavers.

 Peekaboo Stories.farmer grouch and the bees It was such a pretty orchard. All
down one side of it were plum and down one side of it were plum and
cherry trees that put on the loveliest pure white dresses early in May; while a little later the apple trees, not to be outdone, blossomed forth in the daintiest pink and white. Robins loved to sing there, and orchard orioles trumpeted till night will till night as they flashed, like bits From the time that the buds first began to show like little pink knobs, Farmer Grouch, who owned the orchard, used to walk out among the trees, looking eagerly at the rich promise of bloom, and counting up in his mind have to sell in the fall. Fairy Peepapeep was always afraid of him, because he looked so cross and glum, and whenever she saw him coming she would hide in the thickest branch of blossoms. "Ha! Ha!. she heard him say, one dred and fifty barrels! So many dollars for me!"'", she said to herself "He thinks of nothing but dollars. He never seems to see this pretty pink and white, or these green leaves, or the beautiful blue sky.
So beautiful did Peepapeep think it all that she came next day, in spite
of her fear of the farmer. The sun was shining very brightly, making pretty dapples of shadow on the grass beneath the trees, and the air was warm and balmy.
As she sat there on a pretty white pebbe, she heard a cow looking up saw a cloud of bees, all gold and brown, settling themselves ${ }^{\text {among the blossoms. }}$ "What are you doing, bees? Smelling the blossoms?" "Oh no," said a brisk little dark
"Oh colored bee, "we are making our living.

## Fresh from the Gardens

of the finest Tea-producing country in the world.

## "SALADA"

Sealed Packets Only.
Try it-it's delicious. BLACK GREEN or MIXED.


And that is why any man who is thinking of installing a heating system should examine the Sunshine Furnace. It is a piece of work he will take to.

There is a sound reason for this. Take the shape of the ire-pot as an example. The straight walls allow the ashes to
all instead of lodging against the sides where they would interfere with the free passage of heat from the burning coal.

See'the large, double, tight-fulting doors. Notice how easily the dampers are controlled. Not much trouble to shut off the fire and hold the heat with this furnace. See how dust is directed up
he chimney whenever the fire is shaken down. Note the large adiating surfaces and wide passages for heating the air. It was
the che mene a man who knew his job that designed

## m"Clarys Sunshine

## Firmace

If you wish to know what it will cost to place this fine furnace in your home write



We haven't time to smell blossoms'or sit on a pebble. We get honey" out
of the blossoms, and pollen."
 hearts of flowers," said the bee, "how,
very ignorant you are for a ${ }^{\text {+ }}$, fairy.,", very ignorant you are for at fairy.", said Peepapeep. "The green frog told
me I was ignorant, too. But I am learning. May I ask you a question?" "Ask aways", said the bee, "but be quick about it." "What do you do whe pollen? "Kick it off our legs.
Peepapeep, in astonishment" exclaimed "Yes,", replied the bee, quite in a
matter-of-fact way, "we kick it off into lumps and mix it with honey
to make bee-bread for food. As we to make bee-bread for food. As we
are gathering it, too, we help the
blossoms to set their fruit, by pollenising blossoms to set their Iruit, by polvenizing
them. You will know what that means after a while. If it were not for us not half the blossoms would come to fruit."
"Hi! Hi! Hi!-what's this?"-Peepa"Hi! Hi! Hi!-what's this?" -Peepa-
peep gave such a jump off the pebble as the rough voice shouted close to dandelion stem. Sure enough, it was Farmer Grouch, but he wasn't looking at Peepapeep; he was looking
the pink and white blossoms.
"Farmer Hike's bees in my apple
trees!" he went on, "IIl make them hike. Shoo, shoo: - but the bees went
right on burrowing in the never heard him at all.
"I know what I'll do! I'll smudge "I know what I'll do! I'll smudge
'em out," he said, and forthwith trudged
off to the house in high dudgeon. off to the house in high dudgeon.
Presently out he came with a numPresently out he came with a
ber of pans containing black, ugly stum. grass and set them alight, and
green gre
son great clouds of black smoke were soon great clouds of black smoke were
rolling upward into the pretty blossoms: "That'll fix 'em," he said gleefully;
and soon the poor little bees, smothered and soon the poor little bees, smothered
by the ill-smelling stuff, were eether
tumbing stmefied tumbling stupefied to the grass,
trying to make haste to be off.
All this time Peepapeep, who had
run away from her pebble in fright, stood hidden under a clump of big
burdock leaves, hearing and seeing all She watched Farmer Grouch as h stod "O, you silly, silly, man,", she
said to herself, you don't know that
you have perhass hindered half your
fruit from forming", fruit from forming."
"Serve him right," said a litt
hald har-choked voice in the grass beside
her and loking down she saw the
little dark-colored bee, trying to move its "wings and legs,


Junior Beavers' Letter Box.
Dear Puck and Beavers.- have been a silent reader for some time, write to you. I live on a farm along the lake front seven miles from Kingsville, and three-quarters of a mile,
from school. In the summer I enjoy walking very much, but in the winter it is almost too cold. My teacher's name is Miss J . Baker. In summer, during noons, etc., we spend our time in playing games such as "Run for your ," supper," Drop the han kerchief." As my letter is getting long
I will close, hoping to see that the w.-p. b. is away visiting when my letter arrives. Arner, R. Rerdo. Lo. 1, Ont.

Dear Puck and Beavers.-This is my first letter to your charming Circle. i have for pets two cats and a dog, but Tabby, one of my cats, runs away
quite often and does not come back quite often and does not come back
for a l long time. I go to school every ay. The school is a mile away when this arrives. I will close with riddle.
Why is a leaf like a human being? Ans.-Because it has veins
Ayr, Ont. George Cowan. P. S.-I would like some of the

D
Dear Beaver Circle,-This is my hird letter to the Beaver Circle, and
have had success with every one. guess that the w.-p. b. does not like $m$ We have no dog, but we have a cat. had a little kitten but it died. I am
taking music lessons, and I am in the junior third class. I will close with


Silver Water, Ont. (Age 10.) P. S.-I wish some Beavers would

Dar Puck and Beavers,-This is my

 GINES, etc. Write for Catalogue. Ontarto
Maxwelle Limited, St. Mary's, On

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Holstein
a Record of Merit

## The Most Important Thing in the House

The range enters more into a woman's life than any other piece of household equipment or furniture. Her comfort and convenience, and often the brightness and cheerfulness of the home depend upon it.

A range must last for years. It should not be bought thoughtlessly. Merit and proven worth are the only safe guides.

OTHELLO (The Moore)

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is made by people who have made a life-long study of stoves. It is made in the largest factory in Canada devoted exclusively to stoves. If we made furnaces and radiators and other things, we could not make such good stoves. All our brains, energy and efforts go into making stoves, nothing but stoves.

And "Othello" is the best stove we ever made, so we called it after the greatest. Moor that ever lived.
"Othello" is a big, cheery, faithful friend of the family. Will you let him brighten your home and lighten your labor?

## SEND FOR BOOKLET <br> containing "Othello's" pictures and some other

 valuable information.Large, deep firebox with straight sides and ends.
Patent Fuel Saver cuts fuel bills in half.
Well ventilated Oven, with cold-rolled steel bottom. Insures even heat and economy of fuel. Tile Back. Thermometer. Takes wood 28 inches long. Large Reservoir. High Closet. Glass Oven Door.

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Sweet Fresh Ensilage oweet Fresh Ensilage
down to the last forkful
THE HLLO SLO


M UTUAL Life Companies are on the same sound basis as other legal reserve companies, and have the great feature of mutuality to boot.
Holstein Bull $\begin{aligned} & \text { fit for service, sired } b y \\ & a \\ & \text { 3 } \\ & \text { Record } \\ & \text { bl bull band out of }\end{aligned}$ R. R. 2 R. FLATT \& SON Hamliton, Ont
want more men and more money. We have fifty-four soldiers in this little
village of Thedford training now. village of Thedford training now. I
have not been to school much since have not been to school much since
Christmas, as I have been sick. have one sister going to school besides myself. Well, I will close now with a
riddle. Why is a stick of candy like a horse? Ans.-The more you lick it the faster i $\underset{\left.\text { Thedford, Ont. } \begin{array}{c}\text { Bertha Elliott. } \\ \text { (Age } 10, \text { Sr. II. Class.) }\end{array}\right)}{\text { goes }}$ Dear Puck and Beavers,-This is the
first year my father has first year my lather has taken the
Farmer's Advocate," although we have
had had several copies from our neighbor.
I am getting interested in your Circle, I and thought I would like to write a little letter too. We live on a one-hun-
dred-acre farm near East wood dred-acre farm near Eastwood
have a pet cow named Orpha, and a
pony which I call Babe, also a little pony which I call Babe, also a little
kitten. I go to school every day. I am in the scond book. As My teacher's getting rather long I will close, hoping the Beavers every success.
R. No. 5, Woodstock, Ont.
Your little Beaver,

Dear Puck and Beavers,-This is my

[^0]Pan Lougin satay thay hand This is a particularly well balanced and compact good bone. Stiful shoulders loins and quarterser
intellile bisposition, kind and very Ty pical sire to producc hunters, remouns, saddle
and action, horse will stand at Hazelburn, Farm,
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King King Line Phcto and pedigree on application
Fees:- 810.00 for approved halfbreds. $\$ 2000$
 privileges. Mares may be fulurtered on premises
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Wanted-Good homes for children.
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Mrs. Goodwife Says;
I make my Verandah Furniture brand new every Spring with

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 ENAMELSLAC SHADES
Floglaze wears as well outdoors as indoors
It renews and freshens up Verandah Furniture, Wicker Chairs and Tables and makes them suitable for the summer. Besides, it preserves them from the weather.
Floglaze is made in bright reds, greens and yellows, suitable for Furniture, Garden Tools, outdoor play-things and is useful for finishing Wagons, Buggies, Automobiles or Boats.
Write us for color card showing the thirty-six beautiful shades in which Floglaze is made. Ten cents in stamps will bring a eample tin of any color Lac-Shade for renewing furniture.

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It has often been said, sneeringly and condemnatorily enough, that a politicion
can scarcely keep honest. Yet this it can scarcely keep honest. Yet this in ridiculous. Pity that there should have
been so continuous opportunity for be said. Government, despite the lit to ing suspicion in the subconsciousness ot many people, does not and cannot create dishonesty. It may, it is true afford opportunity for the development of a latent dishonesty. After all it has to deal with a finished product. Ab machine be made or marred. When men with latent inherent streaks of dishonesty get into government, ais into big corporations, the dishonesty has a peculiarly favorable chance to ooze through to the top. It recognizes
its opportunity to have the blame die its opportunity to have the blame dib
tributed over a whole body-to stand back personally, as it were, and let the mischief work as an impersonal thing. Occasionally, it is true, is. committed
a breach so gross that names are mention. a breach so gross that names are mention"ed, but all too often, perhaps, the genial when he should not be, because of th, otherwise entirely laudable spirit ol good fellowship that is likely to obtain among a body of men thrown together in common and daily interests.
And yet Government itself is a higb
and holy thing. At its best it offers the highest opportunity for the best type of men, and when the world reaches its climax of development, should Government, indeed, then be necessary, men wiil not shrink from assuming its re sponsibilities, but will gladly accepp.
them as a sacred opportunity for service
to the race.

Yes, the trouble is, not with Govern ment, but farther down. And now, why give place for all this in a womens a field for women. There has nemer been a great educator who has not dwelt with all the emphasis he could command upon the necessity of giving the righ bent to children-in consideration o their future work as men. The chill is father of the man." True, heredity means much, but there is endess powe be then, when men do not "measure up," that, in many cases, early training has not been given. And does it not appear plausible that, realizing their responsibility in giving early training, the women of the world may hold the in their hands? - the mothers and sisters in the homes, the teachers in the schools. It is not wrong training, but lack of many homes are children just left, for the most part, to grow up anyhow in regard to certain matters. They are fed well, they are clothed, they are strapped if they "say swear words
or caught telling a lie, they are made to do their home-work, and, perhaps, given definite training in manners. The matter ends there. Nobody has time to bother further. And yet how müch it might mean to these boys and girls if pains were taken, by suggestion culcate in them a spirit of high honor? Were it only made clear to them that a sharp business trick, by which the other fellow is "done," is a contemptible trick; that, while a certain amount of money is necessary, it is not the best thing in life, nor the pursurt of it the high est endeavor; that every human bemt very best and highest of his life; that we are put here to grow, and to make friends, and to be of use-not to become mere lumps of selfishness. These are among the things that should be made clear to children, but are ver in any way. Were such training carried out, quietly and unobtrusively and insistently, there might still be plenty of blunderers in the world, but there would be fewer knaves.-And there is all the difference in the world between knave. Votes will come to woman, after the said her last word in Government. In helping to raise clean men she has even greater opportunity. It is hers to Be, and to teach-and urge that her
husband help to teach-the future husband help to teach-the future
makers of Government, the greatest makers of Government, the ge holds
science in the world, the one that
the happiness of the peoples in its hand.
absolutely with charge against another one who will consent to avail himself The war, it appears, has given a grand
chance to boodlers everrywher calumniators. In Canada have arisen stories, in the United States, in England,
in Russia, in Germany. There is rotten ness everywhere as well as-thank honest, and good It is swe sw, and
inspiring and
reassuring to thousands of instances of high honor, land
noble self-sacrifice, and utter unselfish-

the rottenness, and so the peoples are
tearlessly ready to probe. Rotten spote
must be cut out to preserve the sanity

One of our girls asks for suggestions for a simple menu for a nice but not elaborate June wedding. The wedding is to be at noon, and, as she is the only irl at home, of the work herself, she hinks a cold luncheon might be adOf course a cold luncheon will be advisable, and may be just as dainty as can be, too. o note that this girl wants a wedding tore vulgar than a pompous and elaborte proceeding in a home that is not used to either pomposity or elaboration at any other time. All "showing off" is vulgar.
For the luncheon one might suggest: cold meats, sliced thin; salads very daintwiches and thin slices of buttered bread; ke with strawberries and cream, or fancy ice-cream. Coffee. It would be nice to serve these on small tables, out of doors if the day should be ine enough. In June there will be no scarcity of Marguerites, (ox-eye daisies) will answer requirement. The daisies keep heir fresh appearance well, and may be made into lovely ropes and chains for looping about the tables from a central pyramid of the same flowers. As most people are glad to get rid or these really bushel for the mere trouble of gathering.

## Hair Query

J. B. writes that her gray hair is becoming dark, and wishes to know what ixty, is not likely to turn dark again permanently. The shampoo you are sing may have something to do with . Try another, for instance one of Jewerry, unless of dull jet, is out of place when one is in mourning.

## "Worms" in Soil.

J. V. F., Elgin Co., Ont., asks what he soil of worms" and "skippers" in plant is growing. Earthworms may e driven out by saturating the, soil with lime-water. The skippers" are vidently larvae of some ly. Upon be to repot the plant, washing the coots very carefully and replanting in soil baked in the oven. Baking is, as a rule, better than pouring scalding wecome so cooled as to fail to destroy become so
the life in it

## Seasonable Cookery.

Amber Marmalade.-Take one each,
arge grapefruit, orange and lemon, arge graperruit, orange and lemon, cut the quarters through, peel and pulp Add 3 quarts and 1 pint of cold water and let stand over night. Cook until the peel is very tender. It will take everal hours. Again set aside over light. Add 10 cups sugar and let cook, hickens occasionally, until the syrup in jelly muss and when cold cover with melted paraffin
Asparagus Salad.-Take a bunch of asparagus, some sliced ham or tongue, hard-boiled eggs, $1 / 2$ cup salad dressing, tablespoonful whipped cream, 1 teaparagus in capped parsley. Boil the asAt serving time arrange, drain and cool. platter with the ham or tongue, sliced placing around it. Cut the eggs in halves, Placing a half on each slice of meat. over the asparagus, sprinkling the pour Rhubart Gidle Cat stale bread-crumbs in a pint of hot milk for 1 hour, and then beat smoothly adding the heaten yokes of 2 eggs, about inch of flour, 1 tablespoon melted butter, ng powder and the stiffy whipped egg whites, torether with a cupful of drained stewed rhularb (sweetened) Brained hot griddle and serve with butter, Rubar and ground cinnamon. 4 tablespoons tapioca with a pint of water and saucepan, adding 1 Turn into a granite 1/G grated nutmeg and a teaspoon of

## Production and Thrift

G AIN or no gain the cause before the farmers of Canada is as clear as it was last be year-they must produce abundantly in order to meet the demands that may sumad, and I believe this to be eapecially true in regard to live stock, the world supply of which must be particularly affecte

THE FOLLOWING STATEMENTS ARE BASED ON REPORTS CONTAINED IN THE AGRICULTURAL WAR BOOK, 1916," PUBLISHED BY THE DEPARTMENT OF AGRICULTURE, OTTAWA, ONT.

LIVE STOCK-The herds and flocks of Europe have been greatly reduced. When the war is over there will be a great demand for breeding atock. Canadian farmers should keep this in mind.
MEATS-In 1915 Great Britain imported 684,508 ons of beef, mutton and lamb, of which $\mathbf{3 0 4 , 2 4 5}$ tons came from without the Empire. Out of 430,420 tons of beef only 104,907 tone came from within the Empire.

The demands of the Allies for frosen beef, canned beef, bacon and hame will increase rather than diminish. Orders are coming to Canada. The decreasing tonnage space available will give Canada an advantage if we have the supplies.

DAIRYING-Home consumption of mill, butter and cheese has increased of late years. The war demands for cheese have been unlimited. The Canadian cheese exports from Montreal in 1915 were nearly $\$ 0,500,000$ over 1914. Prices at Montrea-Cheese : January 1915, 161// to 17 cents ; January 1916, 181/ to $18 / /$ cento. Butter: January 1915, 24 to 28\% cents ; January 1916, 32 to 33 cente.
EGGS-Canada produced $\$ 30,000,000$ worth of egge in 1915 and helped out Great Britain in the ahortage. Shippers as well as producera have a duty and an opportunity in holding a place in that martet.

WRITE TO THE DOMINION DEPARTMENT OF AGRICULTURE AND TO YOUR PROVINCIAL DEPARTMENT FOR BULLETINS ON THESE SUBJECTS

Tens of thousands of Canada's food producers have enlisted and gone to the front. It is only fair to them that their home work shall be kept up as far as possible. The Empire needs all the food that we can produce in 1916.

PRODUCE MORE AND SAVR MORR
SAVE MATERIALS FROM WASTE MAKE LABOUR EFFICIENT SPEND MONEY WISELY

THE GOVERNMENT OF CANADA
THE DEPARTMENT OF AGRICULTURE
THE DEPARTMENT OF FINANCE

## FILLING A LISTER SILO

With a Lister Ensilage Cutter Operated by a Lister Gasoline Engine


The Complete Outfit
Mr. R McEnery, of Erin, not only filled his own silo as above, but also filled a considerable
R. A. LISTER \& COMPANY, LIMITED, TORONTO

Winnipeg
for 25 minutes, stirring frequently then remove, and after sweetening
taste turn into a pudding dish. When cold cover the top with a meringue made from the whites of 2 eggs beaten stiff and flavored with minced candied orange peel and a very iittle confec tioner's sugar
Canned
Canned Rhubarb.-Take rhubarb when it is young and tender, wash and cut in short pieces. Pack in thoroughly
sterilized jars and fill to overflowing with cold water. Let stand 10 minute then drain off and fill again to over flowing with fresh cold water. Sea
with sterilized rings and with required for use treat the same as fresb rhubar Rhubarb Jelly.-Use the old tough stalks. Cut up without peeling and cook in a very little water until tender and bring to boiling point, then add a much sugar as there is juice and boil hard for 22 minutes. Pour into jelly glasses and when cold cover with melted paraffin.
Econony
Economy Hint.-It is a good idea to can plenty of rhubarb, as it combine
readily with any other kind of fruit and so lessens the expense of other kinds. It may be added to oranges, pineapple, strawberries, currants, etc. When stew ing rhubarb that is very sour it is well to remove some of the acidity first, so less sugar will be required. To do this
cover the cut-up rhubarb with boilin water, let stand uutil cool then drain water, add more water and stew as usual.

The Scrap Bag.
Ammonia
Ammonia would be more generally


Ask the Man of the House

 need and
EASY VACUUM WASHER odengath the work and ever your energe. There in that





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Wednesday, May 17th, at 10.30
Home of MAY ECHO SYLVIA, Canada's first 41-1b. cow

## 70 Hition HOLSTEINS

Including a yearling grandson of May Echo Sylvia, from her daughter, Thirty daughters of King Pontiac Artis Canada, a son of King of
 tested dams and grandams. One from a a 29.90-Ib. 4 -year-old daughter of
King Pieter and Countess Segis, a $3170-\mathrm{lb}$ daughter of King Segis King Pieter and Countess Segis, a 31.70-1b. daughter of King Segis, one full one 2 -year-old with over 21 lbs , three full sisters from a 23 -lb. dam, one has 20.20 as junior 2 -year-old
-two with over 23 lbs., three others over 22 lbs , and fifteen from 19 to 22 lbs -all as 2 -year-olds.
Six daughters of Woodcrest Sir Clyde, a son of Piet je 22 nd Woodcrest Lad and Alma Clyde (33.06), a superb animal, whose calves are unsurpase as individuals.
one of Canada's ring-winners, and bred to May E.cho Sylvia's Champinon Several others, all young, with $25-$ to $28-1 \mathrm{~b}$. records.
Many of these females, are bred to sons of May Echo Sylvia-one was sired by Francis M. Jones' 44-lb. bull-the others by King P. A. Canada.
May Echo Sylvia (still in test) has just made 41 lbs. butter in 7 days, and after 30 days promises to better this. She has over 1,000
lbs. of milk in 7 days, lbs. a day for several weeks. This is the
blood. See her grandson by the 44-11 We shall also offer several other exceptional young bulls-one extra
good one from a 31.70 daughter of King Sevis, scveral srandsimm of We are going to reduce our herd
offer opportunities to purchase Holstein -anc-
An all day's sale, beginning at 10.30 . L.unch on the grounds.
TERMS: Cash or
A. C. Hardy, Prop., Brockville, Ont.
value both for general cleaning and for laundering purposes. Kerosene is useful
lau for cleaning polished surfaces ammonia or soap. Apply a little at a time, and rub dry and bright.

## Removing Tarnish

Tarnish and rust may often be removed from polished metals by rubbing whiting

Grease Spots on Wood. To remove grease-spots cover them as soon as possible with hour, start of the
powdered chalk. A great deal or powdered may be scraped off at first by
grease my
pouring cold water upon it to harden it.

Care of Hardwood Floor
hardwood floor may be cleaned by rubbing with kerosene, a little at a time, polishing off, hinaly, way a waxed
cloth. Afterwards the floor may be cloth. Atterwards the foor may be
and polished with a weighted brush.

## To Clean White Paint.

Rub on a little whiting with a damp, soft, wollen cloth, then wash of with a
little clean water and wipe dry. Clean a little at a time. Paraffin oil is good for cleaning the edges of doors which
so likely to become fingermarked.

The Garbage Pail
Every day wash out the garbage pail with a little washing soda and dry it in the sun to dill pery garbage pail
will prevent odors. Ever should be supplied wi
prevent attracting flies

Patching Stockings.
The busy housewife who has too much to do to spend much time on darning, will find it a great time-saver to patch stockings that have become old and
thin instead of darning them. Do not turn in the edges; simply herringbone the patch down neatly. USe a piece of

## Cooking Old Potatoes

Old potatoes must be pared, and should be soaked for one hour in cold water
before cooking. To cook them, put them in cold salty water, bring quickly
to a boil and boil gently the potatoes are large and the outside the potatoes are large and the outside
becomes soft before the center add pint of cold water, enough heat will
remain inside of the potatoes to finish cooking them. When baking potatoes, have the oven hot; if baked in
slow oven they become dry and hard.

## The Dollar Chain

A fund maintained by readers of The Farmer's Advocate and Home $\underset{\text { (2) }}{\text { Magazine for }}$ Soldiers' (1) Red Cross Supplies. Relief. (4) Serbian Relie Countributions from April 21 to April 28: "R. D." Alvinston, Ont., \$1.00;
"Toronto," $\$ 1.00 ;$ Mrs. H. N. Graham, Zephyr, Ont., $\$ 10.00$; Wm. Hay, Carlingford, Ont., $\$ 3.50$; Mrs. Louise Sis sons, R. 1, Iderton, Ont., $\$ 2.00 ;$ " X ",
$\$ 1.00$; Ellen Dods, Maryland, \$2.50; Henry Rodd, Granton, Ont.,
 Amount
edged. previously acknowl
 IF YOU CAN'T GO TO THE
FRONT, (GIVE. Kindly address contributions to "The

News of the Week
Dr. W: F: King, Chief Dominion
Astronomer, died in Ottawa.
Helen Keller, with * her fingers on
the throut and lips of the famous tenor-
singer, Caruso, "heard" him sing, and
was almost overcome hy emotion as the
effect of this strange perceiving


Here's just the garage for farmers. It's low in cost, neat in appearance, weather-proof, and will weather. The sides are of frame construction and the roof is galvanized iron. It is built in sections at our factory and shipped
all ready to set up. Two men can set it up in three hours. It is cheaper than you can have one erected in any other way
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Our new booklet tells all about ur garages. A copy will be sent to ree. Write to-day
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## Premier Perfect Silo



Build your silo now and use it for your as well as for your corn crop "B," giving
Send for our catalogue "BER PERFCT
easons why the PREMIER PE reasons why the PREMIER
SILO is the best The Premier Cream Separator Co 659 King Street West, Toronto, Ont. SINGLE MAN WANTED Must be good milker, accustomed to handibe
horses and agricultural machinery. Apply Farmer's Advocate

## ex <br> ex <br> ex <br> ex <br> 별춘출

POUL


> What does a bevel gear cost? The Ford owner saves $\$ 12$ that the other fellow has to pay for one

## $\$ 16.00$-Average cost of the bevel gear of cars priced around \$1000 and less.

 $\$ 4.00-$ Cost of Ford bevel gear$\$ 12.00$-This stays in the Ford owner's pocket book.
Other Ford spare parts are just as low priced in proportion-the 26 most called for parts altogether cost only $\$ 8.04$.
And less than a dollar a year as a total expense for spare parts is not at all an uncommon experience of Ford owners.


[^1]| The British battleship, Russel, was Sunk in the Mediterranean on Apre,
27th, as the result of striking a mine,
24 officers and 676 men being sayed and 24 officers and 676 men being
124 officers and men missing.

Roumania appears to have concluded a commercial agreement with the Central
Powers and is shipping in foodstuffs When the Allies did not go through the
Dardanelles she was left with no othei Dardanelles she was left with no othei

The revolt against the rule of Yuan
Shi Kait is continually spreading throughout China, nine out of the eighteen
provinces having already declared their independence and come under control is said to be directing the movement States, especially the students in the Universities, are actively supporting the
revolution

A Germ the East Coast of England on April 27 th

3,193 munitions plants are now going at full speed in Great Britain.

The most unexpected event of the
week has been the rising of the Sinn
Fein society in Ireland. On April 21 st
a German cruiser, flying the Norwegian
flag and attempting to land arms in
Ireland was sunk in the Channel, and
among those taken prisoners was the
traitorous or monomaniac Sir Roger
Casement, who was sent to The Tower.
Immediately afterwards, evidently under
Germanr instigation, riots broke out in
Dublin, centering about "Liberty Hall,"
the headquarters of the Sinn Fein As-
sociation. So serious was the rising
that British troops had to be called out
and British warships requisitioned, the
rebels being finally driven from St.
Stephen's Green with considerable loss
of life. Almost simultaneously, trouble
broke out in various parts of Ireland,
centering about Killarney, Enniscorthy,
Clonmel and in County Galway, and the
situation was met by the prompt es-
tablishment of martial law throughout
the country. Sir John Redmond, leader
of the Nationalists, and Sir Edward
Carson, leader of the Unionists, stood Carson, leader of the Unionists, stood
stontly together in denouncing the rising and lending their influence to quell it. The situation is now believed to be
well under control. . On the westwell under control.
ern war-front artillery action has proceeded jncessantly about Verdun, where,
however, the Germans must now acknowledge themselves decidedly worsted. General Petain is receiving great praise for his handling of that most difficult situation. One striking feature of the last fortnight has been lines by night by French aviators. At Verdun the British have taken no part, evidently in accordance with the request of General Joffre, but during the last creasing activity all along the British ront. Several engagements have taken
place, at St. Eloi, Hill 60 and Frelinghein all in favor of the Allies, but it is belieyed that these may be preliminary to a grea attack of the Germans in Flanders and
Northern France, for which 800,000 German troops have been massed. It is interesting, and significant, from some unknown port, has arrived at Marseilles. In Armenia the Russians have been again successful, having captured the
hill fortress of Sasun. From the Tigris less favorable news has come. A vesse trying to take provisions to Kut-el-
Amara was grounded and taken by the Turks. General Townshend's forces have been obliged to capitulate . . The Italians, whose fied of operations in the mountains is one of particular difficulty, have again and have taken the Sentinella Pass in an engagement at Quatia near the Suez Canal, and in East Africa, where
the forces under General Smuts defeated the enemy at Kondoa Irangi. raid by 3 zepplins on April 24th, and a ombardment of Yarmouth and Loweswhich sailed off after killing 4 people, injuring 12, and damaging a few
houses and public bulidings.

the guttering wick. They were a countries that stir and call to a man. "The child is sick," she whispered. at my watch, which recorded a minute or two after four-thirty. There wae
a hush between us. How many timiea in the months that followed, did Ithink of those silent moments. I could tint be sure in the deep-tinged illusion of the hour, that I had actually told the womin
I loved her. It seemed I had fallan into some spell of the yellow rose add
dreamed that the words were spoken Far back we heard the Germaris and Far back we heard the Germans and the Mission folk coming down to the
boats. The line of sky above the clifi was now marked off with gray, the clouds were like smoky mountaind,
and sheet lightning played behind then. and sheet lightning played behind them. I watched for the lantern-intent for the
signal from Yuan.
Interminable minutes, while the da
sank into the dripping mists of the gorge. The day began with a shot the end of the night. It was a "pn-n-ng" of glassy hardness, and from the caverf ous throat of the gorge came a deep round twanging, the repetition in batern A woman screamed. I saw no the volo of Yuan Kang Su:
"By the rivers of Babylon-" We put off toward the centre, foldite against the stream for a chance to
the others. A six-shooter crashed the others. A six-shooter cos ajaind
the whole cylinder-and rifles the whole cylinder-and rilles aled
And now a bellowing voice was raised There was a vast rough effectiveñer about it-as you would think of a eagle screaming above other birde and against it, distinct from all ${ }^{2} 4$ voices, was a nasal intonion man in prayer. father " Mary Roman whispered, hearing only the one. "You mean the big war-eage I had somehow wanted her father like that. The contrast of the puny vorimely
the Reverend Goethe Benson in untinio supplication-and that vital infusion of strength, pulled a laugh from mied There was now besides, a certain
held excited monotone from the Germat The three junks emerged more plainity into the light. The cliff of the opposit gorge was visible. How different from
story had we foreigners cleared story had we foreigners cleared minute earlier.
Our boat was deepest in the stream Infuriated natives were putting ou after the other two and the Germans and Romany fired at them. And Antice


Farm Cushman
The Original Binder Engine


It was that empty metallic voice I had It was that empty metallic voice I had
heard in anger at Hsi tin lin. My name was not uttered, nor any name. The and being that of a herd-creature, alone glanced at me. I yelled to the Chinese to put the boat across. I have often
wondered since, if a certain disordering shadow had not already fallen on my mind.
Santell was running along the wooded
sludgy bank-his knees sludgy bank -his knees lifting high
like an old man's. His head looked small to me small and round like an effigy. His voice was broken with exhaustion. Natives were at his heels,
striking with knives, but he would not held our punters toward the shore mine would have drawn a pistol shore. hesitated. The voice and figure that drew me seemed to have no meaning for the other boats. We were withdrawing from them. . From Mary Romany
as we darted into gamester!" I yelled, as we darted into shore.
the gleam of a pallid arm from the foliage when Santell leaped. The Chinese followed him to the river and I began (with a sense of thawing vileness in my body) to fire at the heads in the water behind the white man. Santell's face turned up to the morning pity, the eyes open and dull like those of a corpse. There was bubbling red
behind him in the water, and the word came mysteriously out of the welter
as I bent forward as "I bent forward to grasp him: miles. . Oh, God, take them offThe Chinese were like hungry reptiles
about the boat--five of them (the same party, I believe, that we had evaded in as I dragged his body over the gunwale, shipping half a boat-full of water. Queer-
ly the detaits fitted into mind. Mary Romany, at my left, was firing her part, but waited for me to command The air was thick with bestial voices. Yuan and the big eagle behind-the last, loudest and nearest. We were
sinking. Santell lay half-covered in redsinking. Santell hay half-covered
dened water, his throat choked with gutturals of hideous memory. The planking quivered and gave
beneath my feet. Water was sucked over-side-then a deluge against our knees. I caught the woman's arm as we
sprang clear.. sprang clear...... remember her
look at that moment of sinking. Awed, frightened, adoring, a glance from her eyes to mine that became a part because it is marvellously true. It was
the sustaining of life-that look from her Santell uncovered an added coil of
energy from God knows where-to energy from God Mary Romany swam her head-to keep off the striking reptiles three of whom seemed unkillably intent upon our lives. © father's shout. The pistol was shot from my hand.
bullet struck my shoulder. giant Romany standing up in the dawn, a repeating-rifle whipped to his shoulder "Don't -" I called, but he fired, and there was ice and flame in my lungs.
I was hetpless, my legs shuddering. They seemed to reach for, and find, my eyes were held to her father-murder
ing me. I looked into his gun again. ing me. Rooked into his gun again.
Mary Romany screamed. and there was ice and flame close to to me: that I must not impede the womans swimming her that Nichola but that my disguise had been my death



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hard and gives a beautiful, transparent finhard and gives a beautiful, transparent fin-
ish, easily cleaned with dry mop or cloth.

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plainly written, on one side of the paper and must bee accompane side of the paper only 3rd-In veterinary questions, the symptom especially mutary replies cannot be siven.
wise satisfactory th-When a reply by maili is required tourgeng
veterinary oo legal enquirites, 81.00 mute be
enclosed.

## Miscellaneous.

## Periodic Ophthalmia

Have a three-year-old mare that was taken sick a year ago last fall. Her legs were badly swollen and her eyes discharged very freely. The veterin arian pronounced it pink eye. He treated her for two weeks and apparently cured her. Since then she had several attacks of sore eyes at intervals of about six months. Her eyes get dim and a whiteness appears in the bottom of the eye. There is a discharge and then in about a week's time they lear up and look all right. Is, she likely to go blind from this trouble?
What is the cause and treatment?

Ans.- The symptoms given are those specific or periodic ophthalmia. This periodically without apparent cause. After selver wis form, which insts in as $11 / 2$ pints of raw linseed oil. Keep the mare in a stall excluded from drafts or direct sunce times daily with hot water, and after bathing put a few drops of a lotion, made of 10 grains sulphate of zinc,
20 drops fluid extract of belladonna; and two ounces of distilled water into each eye

Ayrshire Breeders at Hem mingford.
The Secretary of the Canadian Ayt hire Brcedersy ingon, Que., met the Ayrshire breeders in the east end of the County of Huntingdon, at Hemming. Cord, and organized the Hemmingford
Ayrshire Breeders' Club. Quite a large number of breeders were present to whom the Secretary
explained that the object of organizing breeders' clubs was to promote good fellowship among the breeders and to Pellowshp ane general interest in the the
increase the the bey of cattle, by holding
Ayshire breed Ayrshire breed of cattle, best methods
meetings to discuss the bis of breeding, rearing, exhibiting and rais-
ing the standard of excellence of the ing the stao to encourage the entry of
breed, als cows and heifers in the Record of Per-
formance test, to hold sales and Yormance cest, the public the good qual-
to bring before
ities and excentional merits of the Aytities and exceptionaent decided to or-
shires. Those present shires. Those present decided adoted,
ganize, and a Constitution was adpter ganize, and a Conster of fine Ayrshire
There are a number It is expected that this Club will shortly have about fifty members from the
east end of the County of Hunting don and the adjoining counties of St. Johns and Napierville. Hon. President-Arch. Cleland, Hemmingford, Que.; Hon. Vice-President-
Gieo. Bustard, Sr., Hemmingford, Que.; ice - President - reo. . Sectarystrast
Franklin Centre
Oue. urer-Fred Sweet, He., Sming ford, Que.;
 mingford, Que.; J. C. McKay, HemHemmingford, Que.; W. B. Stewart,


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Questions and Answers. Miscellaneous.

Automobile License
Does a license have to be secured
for the auto and also for the chaffeur? If my son and daughter learn to drive car, are they required to have a license as well as myself? Can anyone get a $\begin{array}{ll}\text { an examination? } & \text { E. T. }\end{array}$
Ans.-The owner of the car must secure a license and this will permit
any member of his family driving the any member of his family driving the who well as himself. Only chaffeurs required to pass an examination in order to secure a permit.

## Blind Staggers.

1. What is the trouble with my horse? He has taken staggering fits The last the the past twell The last time fee threw himself agains his mate and fell, and rolled over on
his back, but jumped up again, apparently none the worse. He is a hors
weighing about 1,500 pounds, and very good animal, either on the road
or farm. He is not fat, but is in good condition. 2. I would also like to get a cure
for the bird louse on the horse. It is giving a lot of trouble in the stable. cannot get rid of it. E. F. Ans.- 1 ."This is aper" or "stomach staggers." It is an affection of the
brain, caused by a diseased condition brain, caused by a diseased
of the stomach. Draw 6 or 8 quarts of blood from the jugular vein, and give a purgative or. Feed bran until purgation commences. All feed should be of first-class quality and given in
medium quantities. Avoid overloading the stomach.
2. The proprietary sheep and cattle
dips have been used successfully for destroying lice. A mixture of 4 parts cement to one part hellebore dusted
along the back and sides of the animal has proved effective. The lice are suffocated by the dust. Care must be
taken wet for a short time after the mixture
is applied. Sewage System in the Country. I would like to know the best method of making a cess-pool for bath and
closet in a country home. Ans.-Land with open subsoil is required in order A hole possibly five
give satisfaction. A or six feet square and about the same depth could be dug and a wall buitt to prevent the earth falling in. The
tank should be covered. Pipes from the house connect with the tank, and the
liquids filter through the open subsoil. A septic tank is preferred to a cess-pool for disposing of farm sewage. Two important features of a septic tank are
the two compartments. The sewage the two compartments.
from the house flow into one where the solid matter is acted upon by bacteria and
is transformed into liquid. An overflow pipe carries it over into the second tank a valve is installed which trips a certain height and allows it to flow out through a system of the below ground surface. These tile are laid on the level preven. The liquid percolates
liquid at one end.
out betwen the tile into the soil where bacteria again transforms the constituents of the out-flow into plant food.
In figuring out the size of tank to use, three cubt is usually allowed for each
partment occupanconartment should not be more
valve compare three feet deep nor less than two-
than the and-one-half feet deep. For every cubic
foot in feet of four-inch tile at right-angles to a
main six-inch tile leading from the tank. A ventilating flue should be put in the
roof of the tank. A concrete. tank proves very sati
difficult to build.

## CALDWELL'S <br> Avoid heavy losses by feeding Caldwell's Chick Feed

Much more depends upon the feed than "upon the care or housing. the digestive systems be right or will soon go out of order. Drooping wings, diarrhoea and frequent losses proper foods. Caldwell's Chick Feed on the other hand is pure, pal atable and perfectly balanced. It is sweet and easily digested. What
they eat-all of it-does them good. they eat-all of it-does them good.
Here is the reason.
Caldwell's Chick Feed is free rom bitter weed seeds such as Worm weed, Buckwheat, Sow Thistle other weed seeds as are commonly ound in many other feeds. Com pare "these other feeds with Cald well's. You will readily note the
difference.

Caldwell's Chick Feed is prepared from clean cracked Wheat, Corn, Millet, Kaffir Corn, and Pinhead Oatmeal. Its analysis shows
the following content- protein $19 \%$, fat $3 \%$, fibre $3.2 \%$, carhohydrates Note the small amount of fibre and the richness of this feed in protein and carbohydrates. Feed Caldwell's Chick Feed daily and you will have fewer losses and a healthier, larger flock.
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J. T. Saiegon, Maple; J. D. Readman, Newmarket, Auctioneers

Sale at 12 o'clock sharp
R. S. Starr, King, Ont.

Sir H. M. Pellat Manager



Questions and Answers.

## Erecting a Silo

1. How deep in the ground is advisable to build a silo?
2. Should a silo be floored

Is a drain from the bottom of the silo necessar
4. Would heavy galvanized wire imbedded in the cement prove satisfactory for fastening the rafters to the silo? put on there before planting to prevent crows from eating it? Ans.-1. If a silo of getting the silage out of the bottom. About three feet would be deep enough. crete floor
3. A drain should be put in around the outside of the foundation, but it is not considered necessary to connect the drain with the bottom the floor
although some do, and have the former slope to the centre. A screen is put slope to the centre. A screen is put
over the drain to prevent silage from
clling it and still permit any liquid to escape. would no doubt hold the rafters firmly, but we believe it would not prove
as satisfactory as imbedding bolts in as satisactory as ichbedarifters could be securely' fastened.
5 . If
before the crows will not bother the field.
Care must be taken not to get too much tar on the seed, or there may
be difficulty in sowing be difficulty in sowing.

Feed for Pigs.
I have been in the habit of selling
most of my young pigs when they most of my young pigs when they are purpose keeping them as I have plenty
of feed . What quantity of grain would it take to fatten 15 pigs? Grain is a
mixture of oats, barley and rye. I intend running them in the orchard pasture mixture would you suggest? Ans.-It is rather difficult to say
what quantity of grain would be re quired to fatten pigs, owing to a num-
ber of influencing factors. The amount of skim-milk available for feeding to be considered. Equal parts shorts and finely-ground oats make a splen-
did grain ration to start young pigs The heavier grains could be fed for
finishing the hogs. Up to 170 lbs. with 280 lbs. meal, using tankage in
place of skim-milk, but considerably more grain is required as a rule. Prof.
Day, of the Ontario Agricultural College, Guelph, in experimental work found required 310 lbs . meal; 82 to 115 lbs . meal, and from 140 to $170 \mathrm{lbs}, 458 \mathrm{lbs}$. mea show the increase in amount of feed
$\qquad$
$\qquad$
$\qquad$ $1 / 2$ tons of grain along with pasture
hould be sufficient to grow and fatter Thogs. Pasturing hogs is fully discussed

Attractive Dining Car Service


## CLOVER SEEDS <br> \author{ (Government Standard) 

}

No. 2 Alside..................... 16.00
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(Northern Grown)
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White Blossom Sweet Clover 13.00 $\begin{array}{lll}\text { M. A. C. No. } 72 \text { Oats..a......... } & 1.60 \\ \text { Marquis Spring Wheat....... } & 1.60\end{array}$ A. C. No. 21 Barley

Terms, cash with order. Bags extra at 25 c . each. On all orders
east of Manitoba of $\$ 25$ or over we pay the freight.
We guarantee seeds to zatisfy or hip back at our expense.

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|  |  |
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| Stouffille, |  |
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Mallory's $\begin{gathered}\text { Strawberr } \\ \text { Plants for }\end{gathered}$ Satisfaction and Profit.
Leading varieties ${ }^{54.00}{ }^{\text {pen }}$ ped
Fifty plants each
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Strawberry and Raspherry Plants

 bearing varieties, also red and arsery stock offered for sale io grown
plants. All nurser
on our farm. Write for catalogue.
Wm. Waller,
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SEED GRAIN
s. specialty
to name.
$\qquad$ 16 oz. cotton
JNO. ELDER \& SONS. Hensall, Ont.

Adirondack Sturdy Stave Silos THE Cheaper- $\mathbf{1 0 8 \%}$ More DILO CO THE ADIRONDACK SILO CANADA, LIMITED Montreal


## Light Draft Hay Tools

All-Steel Side Delivery Rakes and Hay Loaders
Don't miss seeing the line of All-Steel Side Delivery Rakes and Hay Loaders the DEERING local agent can show you. These strong, light-weight, light-draft, all-steel machines do such good work and
last so long that they are the cheapest haying machines you can buy

The All-Steel Side Delivery Rakes, while light in weight and easy on horses, are strong enough to handle the heaviest crops. They have every adjustment needed for good work in-the field.

Buy a Hay Loader with a light draft, all-steel frame; with a steel fore carriage; with no gears or drive chains; one that gathers
up a six-foot windrow and piles the load ten feet high-that's the kind the DEERING local agent sells.

Buy DEERING Hay Machines, Mowers, Dump Rakes, Side Delivery Rakes and Hay Loaders. They take the hard work out of haying and put the profit in. Get catalogue from the DEERING

International Havester Company of Canada, Ltd.
Branch Houses at Brandon, Calgary, Edmonton, Estevan
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## Dollars in Ditches for You

Every undrained farm in your county means possible profit for you. You can make $\$ 10$ to $\$ 15$
a day without more effort than ordia day without more effos
nary farm work requires.
You can cut tile ditches at an average
cost of 5 c to 7 c a rod, including liberal wagesfor yourself. Your neighbor will pa

## BUCimicil

Works perfectly and economically in any soil, leaving the trench ready for the tile. The trench will beabsolutely tograde
with smooth, true, vertical sides and the finely pulverized excavate dirt deposited to one side convenient for backfilling. Hundreds of these machines are in actual operation today, all giving satisfaction

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$\qquad$
Am enclosing photo of machine at work
digging 3-ft. deep at the rate of 16 rods
per hour We Wverage about 100 rod per hour. We average about 100 rods a
day. 3 -ft. deep, for which we receive
per rod, at the expense of about $\$ 5.00$ per

$\$ 20.00$, which is pretty good interest on
amount invested.
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JOHN
Write for Special FREE Book of Fecte



The Buckeye Traction Ditcher Co., 202 Crystal Avo., Findlay, Ohilo

Questions and Answers. Veterinary.

Disease in Sheep.
A few days ago one of my sheep acted dumpish, would grit her teeth,
work jaws, move ears and head as if mork jaws, move ears and head as if
frightened, go backwards a few feet lrightened, go backwards a few feet butcher. Since then three others have shown similar symptoms. The butcher
reported that he could find nothing wrong except the the liver was light colored and contained no blood. They were fed very liberally on silage all Ans.-The symptoms given and the of the liver which is caused by liberal feeding on feed that contains too much sugar. Too liberal feeding on turnips causes it, so also might silage, which is probably the cause in your sheep.
No . treatment is All that you can do is to cease feeding silage. Those that are not showing symptoms now will probably escape. If possible it would be wise to get a
veterinarian to examine the flock and veterinarian, to examine the flock and
feed given, and hold a post mortem if any die, as our diagnosis may not be correct.

## Miscellaneous.

Mange in Horses
Would you advise me, through your paper, what to do with horses that have
the mange? One year ago last winter I sent a team to a lumber camp, and they came home very bad with it. So I bought some disinfectant and Washed them, and turned them out on grass. They
until last weemed to be all right them again. The washing boke out on pears to relieve the washing only ap-Ans.-- Unless the stable was divinected for the time the horses were treated of the disease there is a possibility summer, and the horses during the fected when the horses become the fall. The the stalls are should be disin-
fected wir fected with hot lime wash contaising one ounce of crude carbolic to the gal-

## CREAM SEPARATOR

 MANUFACTURERS SAYthat two-thirds of all complaints about cream separaton are due to faulty lubrication. That is because the close-fitting, fast-running mechanism of the separator demands a special oil-and most people use "just any old oil."

## Standard Hand Separator Oil

is made especially for cream separators and we know that it is "right," because our lubrication experts have made a study of separator construction and exactly adapted the oil to the requirements. Dealers everywhere.

THE IMPERIAL OIL COMPANY
BRANCHES IN ALL CITIES

lon. Wash all harness used, in a warm dip solution. In treating the horse to have them clipped, then wash all affected parts thoroughly, using carbolic soap and a brush, then apply any o the coal-tar dips.

## Suits Free!

Remarkable Cloth that Won't Wear Out Now readers, would you like a suit or pair of pants absolutely free! A most astounding offer is being made by a well know English firm Hey have Cloth You can't tear it! Yet it looks just the same as $\$ 20$ suiting. You can't wear it out no matter how hard you wear it for if during six months of solid, har grinding work every day of the weel not just Sundays), you wear the smallee The firm will send a written guarantee in every parcel. Think readers jus $\$ 6.50$ for a man's suit, and only $\$ 2.2$. for a pair of pants sent to you all charges and postage paid and guaranteed Now, don't think because you are mile away you cannot test these remarkable cloths, for you simply send a. 2 cent post card to The Holeproof Clothing Co., 5 Theobalds Road, London, W.C., Eng. for large range of patterns, easy self measure chart and fashions. These are absolutely free, and postage paid. Send "The Advocate."-Advt. Among the recert sales reported by
Robert Miller, of Stouff ville, Ont., are included a Lavender bull and a select Languish heifer to E. A. Agnew Cookstown, Ont. bull Butterfly Sultan which is out of the same dam as Butter fly King, reputed, when living, to be the greatest sire of milking Shorthorns in Canada. The Lavender bull and Languish heifer sold to Mr. Agnew are both descended orts selling a Mi Ramsden bull, nearly year old F. W. Lampman, Bickford Ont. He is a beautiful bul himself, and is bred on both sides from splendid milking Shorthorns that have teen used for
both purposes.

## 200 STALLIONS FOR SALE OR EXCHANGE <br> in Ontatio and Manitoba, inscribed with our Stallion Exchange Bureau and rangin from $\$ 250.00$ to $\$ 1,000.00$ All breeds, Canadian and Imported. Full list from $\$ 250.00$ to $\$ 1,000.00-$ All breeds, Canadian and Imported.

If your stallion is for sale, send for special blank form to be filled and returned to us, and on receipt we shall be pleased to list him. Our services are entirely free to both sellers and purchasers.
THE GENERAL ANIMALS INSURANCE COMPANY OF CANADA
Head Office: Power Building, Montreal, Canada
This Company issues also policies covering loss of Horses and Cattle by death through accident or disease. Full particuliary on request.


costs more than cheap ready roofings, an object lesson in
the economy of using only the standard weather-proof and the economy of using only the standard weather-proof and for 18 years.
Look for the Paroid roll, and youl will find one of the 2,000 Neponset dealers throughout Canada.
Write is made in upon request-FREE.

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& \text { est-FREE. } \\
& \text { BIRD \& SON Dept. B }{ }_{\substack{\text { Try Neponsel } \\
\text { Wall Baord } \\
\text { in tlace of }}}^{105} .
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$$ in place of

lumber or lath in proce or lath
lund plasterand plaster-
you'll like it.

Sir H. M. Pellat's Holstein Sale. Thursday, May 11, is a date to be rementuered hy farmmers and richly-bred
looking for high-class and Holsteins, for on that day at Lake Marie
Her Farm, + the North Bay line of the (i. T. R.
on the
Sir II M. Pellat will hold his dispersion sale. Among the 75 head to be sold ar several dauglters of the Canadian chat
pion sire Brookloank Butter Baron, whicl numbers among his daughters cows up of Francy Bonerges Korndyke and there fore granddaughters of the noted Francy
Bonerges Ormsly, and carrying the samm blood as Jenny, Bonerges Ormsty, the pound record five years in succession champion Prince Abbekerk Mercena. Many other sires of equal note are re
presented in the herd. Rich official backing is characteristic of the brecting or mie entre lot and a number of selves, fest in the cointry, having lieen
$\qquad$
$\qquad$
 line which stops at Edgley Station at the corner of the farm. For a catalogue
and full information address the manager of the farm, R. S. Starr, King, Ontario.

Questions and Answers. Miscellaneoue.
Mare Loses Her Colt have a ten-year-old mare that lost her. last three colts. She is in foal again, and I would like to get informave
tion regarding how to treat her to saved tion regarding how to treat har is worked
the foal this year. The mare in the woods every winter. L. S. Ans.- The nature of work and treat. Ans. given the mare through the winter may tend to produce a weak loal.
The question of lessening the loss in The question of lessening the loss 20
foals is fully ${ }^{20}$ discussed in April issue, and the information given in that article may assist
your mare this spring.
Turnip and Mangel Seed Per Acre. 1. What is the best way of sowing turnips and mangels? acre should be sown? clover to cut it in the fall, or will it kill out if not cut? Ans. - 1. The usual custom and possibly the best method is to drill the land for turnips, and use the re seed.
turnip seeder for sowing the turnip seader for sow grown the same way, but many prefer sowing the seed on the flat. When the sedd bed with
prepared the seeding may be done sould the ordinary grain drill, but care should be taken not to sow the seend of turnip
2. From $11 / 2$ to 2 pounds of 2. From $11 / 2$ to 2 pornds
seed per acre, or five or six pounds of
mangel seed.
 Mexic STOPS BI FOR CAKE SORE NECK Spavins

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FREE to Horere 145 Van Horn St Druggists
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May 4, 1916

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Percheron Stallion $\begin{gathered}\text { Napoleon Britain } \\ {[4457] \text { foaled April }}\end{gathered}$


Questions and Answers. Miscellaneous.
Applying Manure in the Spring. Applying Manure in the Spring.
What is the best way to apply manure What is the best way to apply manure in to be sown to oats or wheat this
spring? What good does the manure
do? Ans-It may be spread and thorough-
ty cultivated into the grain is sown, altheugh sollore the some prefer
giving the soil giving the soil a light top-dressing
of manure after the seeding is finished.
 on light soil. Manure adds plant food
and humus to the soil, which are essential
to keen to keening the land in goos heart.
When applied as and and When applied as a top-dressing it also
acts as a mulch and checks evaporaFeed for Young Lambs. Will it be safe to sow grain that
ated for smut near a barn where is treated for smut near a barn where
hens scratch? The grain is treated with formalin. 2. What is the best feed for young
lambs? I tam having trouble with my
ewes. The ewves. They have no milk. W. J.F. A. A lamb may be raised on cow's
mik. Milk from a fresh cow is preferable to that from one which has been long calved Heat the milk to blood heat,
and sweeten it a little with brown surar.

 to feed five or six times a day. Lambs
bill soon commence to pick at oats and
withe
 stitute whole milk when the lambl is six
weeks old, if
it is eating other feeds readily. Silo-Corn for Silage.

Sino
intend building a silo this summer. Which is preterred, a silo made
of ordinary lumber, or one made from prepared lumber? There is a difference of $\$ 50$ in the cost. An agent informs
me that the silage in the home-made silo only tets about 60 per cent. feed
sal we, whic the silage in a silo huilt value, whit the slage in a sio buit
of treated wood tests 90 per cent. he When treated with creosote,
the color or the wood black or white? 3. Why is cresocte used on the wood
for silo-building? Is it to preserve the wood, or to make better slage by filin?
the pores? 4. Would the pores in the wood
allow air enough to enter to lower the value of the silage.
Has anyone been known to discard
an ordinary wood or cement silo and re Place it with a perenenere-vood sitio, value? When is the proper time to have silage analyzed? Where can it be done, and what is the expense?
What variety of corn should be planted in order to secure welleared
(lorn for silare)
W. W. R. corn lor silage it is usually conceded that Ans. $\begin{aligned} & \text { And buit of prepared lumber will last } \\ & \text { considerably lo longer than one buite o }\end{aligned}$ consiteraty Yubinger but we were not
nutreated lumber was such a differens aware that there was such a a difference th
and the quality of the siage. .fefor
in difference in cost we would prefer the
silo built from treated lumber.
2. It is usually a very dark brown 2. It is usually a very dark hrown
3. Creosote is used as a wood pre-
seryative, and by its use a tighter silo is insured.
4. We think not for all practic purpose


worder that the results of the analysis
would be useful in determining its
$\qquad$
$\qquad$
$\qquad$
7. There are several varieties of
corn that prove satisfactory for silage
purposes. Of the Flint varieties are


## No More sore Shoulders

## EFFICIENCY

A watch word of many of houses-the dictionary says business
cy means productive of effects; why not use VENTIPLEX HORSE PADS thereby making your horses efficient in their drawing power VENTIPLEX PADS

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\begin{aligned}
& \text { cure gall sores by removing their cause. Venti- } \\
& \text { plex pads are made of our patent Ventiplex } \\
& \text { fabric, it's soft, cool and comfortable on the } \\
& \text { horse and casily washed when soiled. } \\
& \text { Your dealer will gladly supply you, and your } \\
& \text { booklet giving further information is at our } \\
& \text { office, send us your name and address and we } \\
& \text { will forward it to you. } \\
& \text { The Burlington-Windsor Blanket Co. }
\end{aligned}
$$

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## Percheron Stallions and Mares

All imported from France, four to seven years old, all proven foal-getters Government approved; first-class
certificates, weighing 1,900 to 2,100 lhb. Blacks and grays. I am going to close them out. Now is your opportunity to get a good stallion at your own price. Terms to suir J. B. Hogate,

Weston, Ontario


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For Sale-An Imported Clydesdale Stallion ${ }^{-8} 8$ years ${ }^{\text {old }}$, weigh-

$\qquad$
Clydesdale Stallions and Mares $\begin{gathered}\text { We are now offering to. } \\ \text { ale }\end{gathered}$ good stallions, also mares in foal. joHN A. Boac a son. oueonevile, ontario
Clydesdales, 1915 Importation With the addition of our 1915 importation of
 $S_{S}$ filliesth and Richardson. $\qquad$ Myrtle, Brooklin and Oshawa Stations
ORCHARD GROVE HEREFORDS L. o. CLIFFORD

May 4, 191 The Out The folowis ing agricultur vince is contar
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Of fodder and als and als
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have he bave held o Live stock
to the grass.

May 4, 1916
The Outlook for Ontario Crops.
The folowing information regard ing agricultural conditions in this Pro-
vince is contained in a bulletin prepared by the Ontario Department of Agrinished by a large staff of correspondents under date of April 12th:
Fall wheat so far gives excellent
promise. The top is not \$o heavy as usual, as much of the crop was sown late owing to wet ground, but the Gelds were well protected by snow during the winter, and now have a healthy been but little injury from spring "heaving," and there are very few complaints of injury from insects.
The clover crop, like fall wheat, has come except the wery low in good condi-poorly-drained land. There has been but little injury from heaving, and at
present the promise is for one of the present the promise is yor one of the
best hay seasons for years. Alfalfa is also promising well.
The winter was not trying to fruit resulting from the girdling of young trees by mice and rabbits, driven to hunger by the deep snow lying so long In instances grape vines and raspberry
canes have been frozen back more or canes have been rozer less owing to tenderness from the leste fall growth, but the iniury will not
likely affect the general yield. Strawberries and other small fruits are about normal. The San Jose scale is still complained of in the Lake Erie counties,
where it has got a hold in many old where it has got a hold in many old
orchards, but elsewhere this pest is orchards, but elsewhere thas pest is
being combated in its earlier stages, and is being kept more under check The general outlook at present for all classes of fruit is faverable, apple buds
piving better promise than for years. giving better promise than for years.
The wintering of live stock was a comparatively easy matter, owing to there being a large quantity of grain on hauted by the wet harvesting. Corn although not of such good quality as in more recent years, and there was a good
average of average of yoots, but was scarce and high
The demand for horses, notwithstand ing war conditions, has not been engood working condition, although many distemper.
On the whole cattle have wintered well. No serious disease has been complained of, but there have been a few cases of abortion, and a more frequent complaint of a form of indigestion,
said to sarid to be resulting from eating musty
grain, straw, or other fodder. Dairy cattle are said to be rather thin in flesh owing to the heavy drain upon their milking powers during the rich
pastures of the mid-summer and fall pastures of the mid-summer and
of last year. Beef cattle are not plentiful as usual, as prices of fat stock have also rather scarce but average in quality, although there are complaints that some are rather of the dairy type. Calves are being better cared for than formerly
Sheep
have wintered well, and lambs are said to be coming on nicely. As upon the handling. A correspondent describes the hog as
the farm "mortgage lifter" prices. The heavy demand for bacon hogs has made a shortage in the number on hand. There are even fewer com-
plaints than usual of sickness among swine
Owing to there being a good supply
of fodder corn and of straw on hand of fodder corn and of straw on hand,
and also sprouted a consideraine quantity of been held out well, although hay has
bed more sparingly than usual. Live stock will be carried over nicely
to the grass. The enlistment of so many men from the farms, and the enticing prices paid
by factories making munitions and other military supplies, have caused a shortage of labor that is much felt in rural
districts. Several correspondents state that in many cases theres is only one man on each 100 -acre farm; others say that
on such farms there is only about one out of five that has a hired man left

THE FARMER'S ADVOCATE.

## MEmiNeqs

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Given proper soil and care, Ewing's Seeds will reproduce in your own garden, before your delighted eyes, the choice selected vegetables and flowers from which they themselves grew.

Breeding counts in plants as well as in animals, as Ewing's "pure-bred" seeds have been demonstrating by splendid crops for over forty years.

Start right-plant Ewing's Reliable Seeds-and get the most out your garden. Write now for our
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is not greasy or inflammable. It tirils lice. mitese, , feas and Try it according to directions fy Hissases orlive estock and pouitry. Keep
your Barns. Stables and Poultry Houses clean and eanitgry by liberal use of
illuted Zenoleum. If you want healthy birds and animals free from lie
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Twenty Imported Bulls These imported bulls, along with 10 home-bred buls, may now be eeen at our farmes.
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Robert Miller Still Pays the Freilght-And he is offering in Shorthorns ,iome of the been some younger still: heifers fit for service and younger, and some in calf. They are of the bend
Soocch families, and some ot them from great milking familice. They are in good oondition and



4
GLENGOW SHORTHORNS AND COTSWOLDS
 Alto ram and ewe lambo of firt quality. Myrtle, C.P.R., Brookilin,G.T.T.R.Oohama,C.N. B
 or use on grade herds. Some sired by (Imp.). Loyal Soott; albo femalee. Write ue before buying.
GEO. AMOS
 at foot and bred again and some fine beifers bred. All regitieced and priced to live and let live

The Salem Shorthorns


 Fletcher's Shorthorns Our herd of pure Scotch Shorthorns (imp., and from imp stock Toronto in 1914 and 1915. Former sires. Reyal Bryce (mphic
and Joy of Morning (imp.) $=32070=$ Preeent offering, 3 choice young Sootch bred bulis, an "Orange

10 Shorthorn Bulls $\begin{gathered}\text { and } 40 \text { females. } \\ \text { ewmes for } \\ \text { of } \\ \text { of eale }\end{gathered}$
JOHN MILLER, Ashburn, Ont. Myrtle Sta., C.P.R. \& G.T.R.

 Shorthorns and Shropshires ${ }^{- \text {T. L. L. MRRCER, Markdale, Ontario- }}$




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ling families. Freloht paid.
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1854-Maple Lodge Stock Farm-1910 SHORTHORNS and LEICBSTERS Good quality and choice breeding Come and MISs C. SMITH, Clandeboye, R.R. 1, Ont. Garm one mile weet of Lucan Crossing-Telephone For Salle-Pive Shorthorn Bulles 12 to 18 Two red and 3 roans; prices right Also one good
roan bull, 8 mos. old, a Campbell Rosebud, a right
 Shorthorns bulls, females, reds, roans, size, 40 years. Cows millying 50 Ibse a day. Big, fleshy sowe that will nurse calles right. Prices easy,write:
Thomas Graham. R. R. 3. Port Perry, Ont. We are offering choice young bulls from 6 to 12 os. or age. Cows in calf. heifers from Barmpton or age. A.eo our big, thick stock. bull. Barmptom
Sailor. A. McKinnon, Erin, R.M. Hillibure
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IS YOUR WAGON LOPSIDED?
Hhave worn axles made the
Wheels ond out ot gear?
could hou have prevented that
condition-and you can still
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Louden Barn Equipments

Louden Machinery Company
Guelph, On
19 BULLS--HOLSTEINS

Canadian Store Cattle and England. Editor "The Farmer's Advocate": At a recent conference of English
meat traders, held at Leicester, a London meat traders,
delegate named Edwards raised the point
and favored the importation of Canadian store cattle into Britain. He said the difficulty the scheme had to overcome was the opposition of the
Conservative party which largely represented English breeders and the alliance of the Liberal party with the Irish who
were the chief importers of store cattle
to that country. Mr. Edwards was nuite right in these statements, but he omitted to add that the English government
are afraid to admit foreign cattle lest the native herds should be attacked
with Foot and Mouth Disease, which is now as good as stamped out in the Old Land.
Aiverpool, ${ }^{\text {Ald }}$ speaking as one of the de putation to Sir Robert Borden and Lord Selborne, the English Minister
of Agriculture, on the question of Caof Agriculture, on the question of Ca-
nadian store cattle, said the British nadian store cattle, said the British
Government had determined to preserve the herds of the country from disease and those who against a brick
nadian stores were up wall.
Another speaker declared that the
graziers and feeders graziers and feeders of cattle in Britain
would welcome Canadian stores but breeders and rearers ine Britain did not
like them because they would not be able to make so much out of their stock. The "conversation" came to nothing, The whole truth of the matter is that may be, is too near to the U. S. A.
whose recent outbreaks of Foot and Mouth Disease have been watched with interest
by British breeders. The English tacked with the disease has led to the country. Ming clear at the time of
writing. Minor and trivial outbreaks
occur now and again but they are met with slaughter and burning and that
scheme pays best in the long run.

Questions and Answers. Miscellaneous.

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## RIVERSIDE HOLSTEINS

erd headed by King Johanna Pontiac Korndyke, a grandson of Pontiar Korndyke, and a brother of Pontiac Lady Korndyke, 38.02 lbs. butter J. W. Richardson, R. R. No. 2, Caledonia, Ontaric

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The home of Plus Pontiac Artis, the champion 2-year-old in R.O.P. work with $21,0001 \mathrm{lb}$ mill,, 980

 Pontiac Artis. He has 7 dams in pedigigee over 20,000 Ibs. mill
Pred young females. Write for prices, or come and see them.

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The only herd in America that has two sires in service whose dams average 119 lbs. milk a day not
over 35 lbs. butter a week. Cows that will pive 100 lbs. milk a day are what we are trying
 D. G. FLATT \& SON, R. R. 2, Hamilton, Ont

HOSPITAL FOR INSANE, Hamilton, Ont. For Sale-holstein bulis months, from Record of Performance or Record of Merit dams and the grand bulls Sir Korndyst Count Dekol, grandson of Tontiac Korndyke, or Lakeview Duch hand Le Strange
 Ratter. 98.20 Ibs. the atest Canadian champion 30-day butter cow of montha after calving, and
half brother to L. D. Artis, 34.66 -1b Canadian champion senior 3 -yr-old. ${ }^{\text {Terms }}$ to suit purchem

EVERGREEN STOCK FARM - REGISTERED HOLSTEINS
 A. b. hulet $\qquad$ Nokwich, ontarin



Cloverlea Dairy Farm offers for sale a choice 23.1.b. bull ready for immediate servic




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For Sale: Sons of King Segis Walker
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receipt of price if your druggist cannot supply. | Dept.E. DR. LAWRASON MEDICINE CO. |
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| Toronto, Ont. |

J ERSEY BULL $\begin{gathered}3 \text { years. } \\ \text { splendid animal. }\end{gathered}$
M. $\begin{gathered}\text { Greder and a } \\ \text { Price low. } \\ \text { CIINTON, ONT. }\end{gathered}$
Jerseys for Sale-I am offering two very fine
Jersey bulls, age 10 and 12 months,
 bull, De La Revhe Duke imp.). Pirices ryight.
CHAS. E. ROGERS. Ingersoil, Ont.

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A few young bulls for sale from Record of Per-
formance dams, imported and Canadian-bred.
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37558. grand champion at both Quebec
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D. Mc.Arthur, Manager, Philipsburg, Quebec STOCKWOOD AYRSHIRES
Sired by my royally bred and prisewinnin Sired by my royally bred and prisewinning bull
Whitehall King of Hearts, Imp., for sale are it
calf heifers and cherif hand young buils, out of Imp. and big
D. M. Watt. St. Lucing coww.
Alderley Edge Ayrshires

High-Class Ayrshires It vou are



The King's Gift Stallion, Anmer, Arrives.
The gracious and titely action of
His Majesty, King Georev vin His Majesty, King George V., in or ore
senting to Canada from his roval stud senting to Canada from his royal stud
his Derby candidate of 1913 , Anmer,

 stock of this ocuntr. Anmer $\begin{aligned} & \text { cour was } \\ & \text { selected by Lord Marcus Beresford at }\end{aligned}$ the request of His Majesty, as a sire
suitable to produce a remount type of suitable to produce a remount type of
horse. He has been handed over to horse. He has been handed over to T. J. Macale, to Ennisclare Farms, at Oakville, Ont., in charge of Hugh
Wilson. Anmer, it will be remembered, was the King's candidate for the Derby in
1913, and was running even when a suffragette ran out on the course, enhim, the fall narrowly escaping being fatal to his jockey, Herbert Jones. The
suffragette died the following day from suffragette died the following day from
injuries sustained. He is beautifully bred, as the extended pedigree would indicate, being by Forizell II., winner
of the Ascot Vase, Goodwood Cup Jockey Club Cup, and Manchester Cup, among other races. Florizell II. is a full brother to Persimmon and
Diamond Jubilee, both Derby winners, and St. Ledger, winners for King 000 as a sire, to the Argentine Rer $\$ 150$, and has given splendid success. Guinea Hen, Anmer's dam, is the mother of several winners, including Brakespear and Pintadean. Her sire is Gallinule, the sire of the great Pretty Polly.
The Thoroughbred Society in their endeavors to encourage the use of the Thoroughbred sire have announced that
the revenue from the stud fees, which the revenue from the stud fees, which $\$ 50$ to Thoroughbred mares, will be distributed as premiums at agricultural shows and exhibitions to classes of
horses suitable to become remounts, sired by a Thoroughbred. This action should commend itself very strongly to is the opinion of many prominent horsemen that have returned from England and France that in the years succeeding this great war buyers from the European countries will seek to re-
plenish their depleted stocks in Canada, and it may be expected that high prices precaution is already being taken to preserve the mares which are unfit for
further service in France by returning them to England. Nearly every hunt
ing stud, and they are not few in num her, was left with only such number of horses as would be needed to keep
their huonds in exercise, the balance
being being commandeered in the early stage
of the war. Many of the best types Munters shown in recent years at have come from Canada, and principally the Province of Ontario. The majorit
f these were sired by Thorough breds, and a good many were from
half-bred mares of Thoroughbred parentage. The Thoroughbred Society are to be congratulated upon their interest their efforts.
Communications may be sent to the Secretary, T. J. Macabe, Toronto,
or Hugh Wilson, Ennisclare Farms, oakvile, ont.
Florizel II. $\left\{\begin{array}{c}\text { St. Simon. } \\ \text { Perdita II. }\end{array}\right\}$

Guinea Hen. $\left\{\begin{array}{l}\text { Gallinule. } \\ \text { and }\end{array}\right.$
Questions and Answers. Miscellaneous.

## Heated Manure.

Manure when drawn from the barnyery hot. Will it heat enough to destroy foul seeds or alsike seeds if there are Ans.-It would likely be necessary the seeds. Turning is necessary that heated, seeds would not grow.


More Profit


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 The Bateman-willithon Con Coutd 416 gzanc ion Aoe

Garden Seed Drille Potatol Planters " Riding Cultivators Walking Cultivators Potato Sprayers
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1 City View Ayrshires - Forty head to choose from. No reserve on females over tw City View Ayrshires- rears. Fourteen young heifers coming on for young herd Four choice young bulls fit for service, rom record eire and dams. Prices reasonable. Writ
(R.C. and S. Rhode Island Reds), 27 prizes, 8 speciala a nd 2 silver cups at 3 shows. Write or call.
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is made of the best Open Hearth steel fence wire. All the impurities of the steel are burned out and all the strength and toughness left in. Makes the fence elastic and springy. It will not snap or break under sudden shocks or quick atmospheric changes. Our method of galvanie. ing prevents rust and the coating will not flake, peel or chip off.

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The Banwell-Hoxie Wire Fence Co., Ltd.
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F. S. ARKELL Summer Hill Stock Farm

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in Canada. Look up our show record it will give you an idea of the kind of Oxfords we have for sale.
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We breed and import reg. Oxfords. Rams and ewes in any quantity for sale-an" except by orde
PETER ARKELL \& CO., Prop. Box 454, Teeswater, Ont.
 ing as winners of export bacon in keen competition at Toronto in 1915 . ing as winners of export bacon
WM. MANNING \& SONS WOODVILLE, ©NTARS. Duroc Jersey Swine, Jersey Cattle-In Duroc Jerneyg we have either ser of aig for generations back. In Jerseys we have young cows in call, and young bulls, high in quality and MAC. CAMPBELL \& SONS. Northwova, Ont.
Cloverdale Large English Berkshires! Sows bred, others ready to breed; boars ready for service; younger stock, both sexes. pairs not. 3
All breeding stock imp. or from
imp. stock. Prices reasonable. C. J. Lang, Burketon, Ont. R.R.


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From our recent impor
we can upply select br
H. M. VANIDERLIT,
Langf
ST LA
ortation of
Peeding bto
Bree
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Station on Brantford and Ramilton Radial.




##  ADAM THOMPSON $\begin{aligned} & \text { best strain of the breed, both eexes, any age. } \\ & \text { R.R. No. 1, Ontario }\end{aligned}$ Stratford, On

- Our oresent offering is young breeding Berctebirese, boib

F. W. cockshurt, Brantord, and whit
 per rent. of the prizes offered in the last ten years at the Canadian National,
Condon and the Guelph Winter Fair.
D. DOUGLAS \& SONS, R.R. No. 4, Mitchell, on
injurious. rived from the same substance, and the druggist may be correct in saying that they $x$ are both the same thing. The
substance sold as formalin is a 40 pei substance sold as formalin is a 40 per
cent." solution of the aldehyde in water. Formaldehyde may be the same or may be stronger. The material used
for treating seed grain for smut should be the 40 per cent. solution. 2. 3. If the corrosive sublimate does
notzstop the itchiness when it is ap-
 times daily with a lotion composed of
onelounce each of sulphate of zinc and
acetate of lead, and one dram of carbolic acid in a quart of water. Do no
feed too heavily on grain. and add bran to the ration. ${ }^{\text {n }}$ grain, and add

Difficulty in Churning.
We have two cows milking, one a
farrow cow, and the other not coming farrow cow and the other not coming
in until late in August. They are fed
on cornstalks on cornstalks and bran. When the
weather is warm they are turned out to a straw stack which contains out
wheat wheat, rye and buckwheat straw.
have churned four different times an oot no butter at all, it just comes to a
roth. A short time before when we had trouble in churning the cows failed
in their milk. We noticed this morning that the cow that is coming in
gave milk which seemed to have yeliow gave mink in it. What is the trouble,
chunks and what would ${ }_{4}^{*}$ you advise doing?

Ans.-This trouble with churning rrequently occurs when cows are nearin cially when not receiving succulent feed. If roots are not available try adding a little linseed meal to the ration. When the cows are well advanced in lactation
the cream should be a little higher in temperature, for churning, than that from badly is usually low in percentage butter-fat, cold, and contains a gas-producing ferment. Try having a little richer cream and churning it at a higher
temperature than is customary If it foams add a little salt and water at 75 degrees F. Heating the cream up to churning temperature will sometimes remedy the trouble. The thick milk may have been due to a little inflammation of the udder, caused by a bruise.
Bathing with warm water would prob Bathing with warm water would prob
ably effect a cure

| Another Record Cow. <br> During the first half of April Lakeview Rattler, a Holstein cow owned at Lakeview Farm, Bronte, Ont., estahlished a new Canadian record for a mature cow, giving 720 lbs milk carrying 30.03 lbs. butter fat or 37.54 lbs. butter on an 80 per cent basis. <br> Successful Queen, a Jersey, produced in a tist started at four years five months of age, $16,389.3$ lbs. milk, 852.72 lbs, fat, or $1,003 \mathrm{lbs} .3 \mathrm{oz}$. of $85 \%$ butter. This record not only exceeds the highest fat production in the class, but also becomes the highest milk record of any cow in the breed at four years of age. At the age of three years and three months, she entered the Register of Merit with a production of 13,088.4 lbs. milk, 682.4 lbs . fat, or 802.7 llis . |
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Questions and Answers Miscellaneous.


Are you one of many paying high prices for lowi-grade goods?

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CRAMPSEY \& KELLY Dovercourt Rd., Toronto, Ont. Morriston Tamworthe and Shorthorns, bred
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Those
and choose from, Choice Shorthorns. 3 extra fine
red roan buli calves. 8 months old, dandies, also
onemit cown and heifers of the deep-milking strain.
CHAS. CURRIE,
Mortiston. Ont. INGLEWOOD CHESTER WHITES-We now pairs not akin. Foundation stock pigs, one of the beet herds in Canada. Prices right and sat isfaction
guaranteed. WILSON MCPHERSON \& SONS,

## TAMWORTHS

 Pine Grove Berkshires
Young things, both sexes, from my prizewinning herd

| Prospect Hill Berkshires-Special offering for the trade: a fine lot of young sows that farrowed in June and July, heing bred and ready to breed; also some broute sume age. Terms and prices right. JOHN WEIR \& SON, R. R. No. 1, Paris, Ont. | Successful Queen, a Jersey, produced in a test started at four years five months of age, 16,389.3 lbs. milk, 852.72 lbs |
| :---: | :---: |
| AVONHURST YORKSHIRES - Are quality Yorkshires - Young pigs, either sex. Feh. farrowed from litter of 21 of which 19 were raised. Quality and breeding are of the best. Engs for hatching Rose-Combed Rhode Island Reds, O.A.C. bred- tolay, $\$ 1.00$ per 15 . Codrington, Ont. <br> B. Armstrong \& Son, | fat, or $1,003 \mathrm{lbs} .3 \mathrm{oz}$. of $85 \%$ butter. This reend not only exceeds the highest fat production in the class, but also becomes the highest milk record of any cow in the breed at four years of age. |
| Choice Poland-China and Chester to offer: bred from winners. Also extra good White Cap seed corn. Prices right. $\qquad$ | months, she entered the Register of Merit with a production of $13,088.4$ lbs. milk, ti82.4 lbs. fat, or 802.7 llss. $85 \%_{6}$ butter |

Strength Cal that has itchy legs. She is con tinuously stamping her hind feet. I treated her four _or five times with
corrosive sublimate, as has been recommended, but it appears to do no good. mended, but it appears to do no good. A Farmer. Ans. to stock
$2 . * \mathrm{~W}$ formaldehy is the stronger, formalin or is no difference and druggist says there with whichever is asked for. He says they are both the same thing. Is this

## WHEN IS A GOOD OIL NOT GOOD?

WHEN it's used in the wrong place. You cannot expect a heavy oil designed for use on a low-speed, high-power tractor to lubricate efficiently the finely adapted bearings of a high-speed, low-power tractor.

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Keeps the cool bearing cool. Does not depend on heat or friction to cause it to lubricate.


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Farmers
USE
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（）would laugh at a man who ran his farm with
the methods of twenty years ago．Think of
then beine without the labor－saving devices devel－ oped in that time．＂Think of the old plows．Try and imagine what it would be like to dow whout the creant separator，the gas engine，and all other labor－saving devices that now make farming－$\quad$ mand times mor porftable than it nad to be．





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STEEL TUBE FENCE POSTS
AND WIRE FENCING pees．Once in they are anchored for all time
 pm－bhe was lother

Thes ion sonleoper perat to bus．


 Whith кism tull particulars．
 boles ter PO POSTS need no

Enlike wool，they cannot rot，never burn and
They are firmer，stonger．lighter，and in wery

They ant you moly ome－third in labor to erect，for Kinu，tow，should know all there is to know about
 which has been （opicel hy nearly factorer．Batare－

 ararlual Cll木：hat
 110
$\qquad$


[^0]:    first letter to your Circle, My father has taken yers, and we would not like to be without it. I like to read the letters very much. For pets I have a dog called Tory, and a cat I call Snowball. Our teacher's name is Miss
    Clark; we all like her fine. We live Clark; we all hee her ine. will close with a riddle. Ans.-She's a hen noter.

    ## R. R. No. 1, Sebringville Ehgoetz. <br> bringville, Ont.

    (Age 9, II Class.)
    The Beaver Circle.-This is my first letter to your charming Circle. My
    father has taken "The Farmer's Advo cate" for five years. I have three pet cats and one dog cated Quig. I have six brothers and one sister. Two of my brothers are married, and my biggest brother has a boy eight months old. He
    is beginning to walk; he has four teeth. is beginning to walk; he has four teeth. I think my letter is getting quite long;
    I will close with a riddle. I will close with a riddle.
    What is the difference be

    ## ing machine and a kiss? sews seams nice

    sews seams nice and the other seems sonice.
    I I hope this will escape the w.-p. b. Komoka, Ont. Allan Campbell.

[^1]:    POULTRY AND EGGS. ARE YOU INTERESTED?-EGGS FROM
    Méinners at Panama Pacifice Exposition
    Madion Square Garden, Guelph, Ottawa yatiern So faname Pacibe Expoition
    
    
    
    
     Ontario exhibition and layings. BUFF AND WHITrins. Hatching eggs
    exitition $\$ 5$ per 15 , others $\$ 1$ and $\$ 2$ per 15 .
    
    
    
     PEKIN, ROUEN, INDIAN RUNNER DUCKS Wyandottes, R. I. Reds, and Blat
    nevedify per siting. Prime stock.
    land, R. 1, Harriston, Ont.
    RHODE ISLAND REDS (SINGLE COMB)
    thoroughbred ${ }^{2}$ heavy winter layers.
    Fiftee eggs, $\$ 1.50$. Dr. Hendry, Delhi, Ont.
    ROSE-COMB RHODE ISLAND REDS, O.A.C ROSE-COMB RHgy from select pen si. 25 for
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    Bfteen. Armstrong, Codrington. Ont. RINGLET BARRED ROCKS - HEAVY
    winter layers. Send for photos of flock and fur-
    ther particulars. Setting $\$ 1.50, \$ 1.00$, guaranteed ther particulars. Settings \$1.50, \$1.00, guaranteed
    Baby chicko, 15 Cta. Woldam, Barriefeld, Ont.
    HLVER-LACED WYANDOTTE EGGS FOR sale, 81.0
    rock,
    Brantiord.
    $\frac{\text { Brantford. }}{\text { SINGLE-COMB BLACK }}$ BINORCA
    OGGS-fifty also O. A. C. oats. Fred Reekie
    Campendown, Ont. ona-irdown, Ont.
    S.-C. WHITE LEGHORNS BRED FROM PEDI.
     hundred. Geo. D. Fletcher, R.R. 1, Erin, Ont.
    SINGLE-COMB RHODE ISLAND REDS SNGLE-COM B RHODE ISLAND
    Heavy laying strain. $\$ 1.25$ eetting
    Earle Willson. Aurora.Ont.

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    pord derting
    Berbert

