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| 9 | 48. | ${ }_{22}^{163 / 2}$ | (4-5-531-7-812-9-9 | ${ }^{30}$ |
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Vol. XLIX.

## EDITORIAL.

oing yours?
The Kaiser's banquet in Paris has been in definitely postponed.

Ninety degrees in the shade was rather warm welcome to autumn.

A German Count foresees
democratic Ger
many. The people must win
ful by your exhibits and your presence
Autumn is no time for loafing. Next year's crop depends upon this fall's effort
Mangels should be left in the field as long a possibie, but they are injured by hard frosts.
Rush the fall work. It is early yet, but win ter generally comes before all things are ready.

We should hold no animosity against the German race; it is a war upon the militarist system which has dominated that country.

After watching the judging at the big exhibiand legs are about half the horse.
If we cannot import good stock we at least can breed some if the right matings are made o the good sires and dams already in the country
It is not so much the acreage under crop in Ontario which should be enlarged as it
yields. Better farming is what is needed.

Canada is in need of high-class breeding stock, and stôckmen are looking forward to good busi ness in the right class of animals of all the lead-

Considerable corn has been ensiled too early this season. It is difficult to make the best quality of silage out of corn stalks which con tain too much sap.

Many city men would like to be farmers. If
they would be ability, capacity for managing operations, have must be willing to work after knowing how, and

Every district should organize to prevent the waste of apples which is sure to come this fall unless something is done to handle the crop together. Our country cannot afford to lose this

A feeder recently made this remark to us, "In three or four are catlly on the market only show-ring." How many have you of these toppers in your fields

The New York Independent, which sums up very accurately the best judgment of the United States in regard to the war, is unable to reach
any other conclusion than that Germany is in the wrong, and has brought upon herself the con-

LONDON, ONTARIO, OCTOBER 1, 1914

A Word With You, Young Man. The career of the late Dr. Wm. Saunders pre sents lessons that ought to grip the attention of every young man in Canada. Lacking a birthspoon of gold or a college education, multitudes seem biind to any pathrway of advancement and sink into a rut of stolid indifference or senseless frivolity. Their physical or sedentary tasks become dull, unthinking routine. Though perhaps no less richly endowed with gifts by nature than Wm. Saunders, their interests seldom range be-
yond the prattle of the street or neighborgeod the daily sensations of the newspapers, and they grow into older years dawdling away precious time, non-productive and unimproved. Wm, Saunders had no more time than any one else, but he did not waste it. He used the hours to good purpose, and this was undoubtedly the chief secret of his succeeding in so many ways. Never carried away with the craze for mere "fun" or facing after recreation he still enjoyed life to the to him replete with grass and every clod was If worn with the tosks of the drug stor interest. he turned for real recreation fruits and flowers, or some undertaking for of benefit of others like assembling an exhibit of Canadian fruits for the New Orleans Exposition re-generating West London, Ont., after $\mathrm{I}_{\mathrm{a}}$ disastrous flood, or opening his home to young men for the cultivation of music. His work in connection with various public associations in Canada and other countries, and on the Royal Commission of enquiry into the conditions of Ontario agriculure disclosed his range of view, his re his capacityoroughness in accumulating facts and of which in 1885 distinguished the conclusions, all his report on experimental station work in agr culture in Europe and America dertaking grew the splendid experimental farm system of Canada which he organized and directed or a quarter of a century, and which next to family of distinguished worth remains his most enduring monument. For many years he was the head and moving spirit of many organiza tions for the progress of science and of agricu ure in particular, his accomplishments meriting he high honor of commendation by the Britis body of world-wide authority and prestige
Most men are well content to be specialists in some one or two directions, but by his own individual research and study Dr. Saunders became minent as a chemist, botanist, entomologist, plant breeder and man of many business affairs, public and private. In administrative duties and as an experimentalist and demonstrator h left no loose ends. Rectitude and exactitude onstituted his passion. Unobtrusive in his religious convictions and church relations they were ore the less tea, and '" his imperssanble mor more than the King s Knight Companio V (G) that he has left us a record of almost unparalleied activity absolutely unsullied. In his home or office or at public gatherings his courtesies were as unfailing as his informatio was encyclopaedic. Both will ever be held in grateful remembrance by the Canadian journalists of the past three decades who revere him as an exemplar to all public men.
It is worthy of note that though entirely selfeducated, several great universities conferred upon him their degrees. Apprenticed to the drug
two years public school education, he became one of the foremost scientists of kils time, and in im portant respects the country's most exemplary and highly honored citizen. With such a record before him need any young man on this continent whose beginnings may be lowly, his means and
education limited, or his opportunities apparenteducation limited, or his opportunities apparently few, despair of a future of usefulness and if he possess the character is within his reach learn possess the character and the purpose

## Permanent Institutions

Canada should feel proud of the success which her leading and smaller exhibitions have attained in this year of trial. A few of the shows were called off, but most of them have beefi or are being pushed to a successful climax in some of The first panic of war caused some Dominion The first panic of war caused some wild tall,
and many were they who in haste advised that all the big exthibitions be cancelled. A better judgment soon saw the folly of such a move, and the managements quickly realized themwong that would be done the exhibitions and the country if they did not go on. Nothing spreads fear and rumor of disaster more quickly than the abandoning of a permanent institution. Our faire have proven themselves permanent, and managements are to be commended upon the manner in whic There are, however, some other in 1914
ral in which the farming public is greatly interested, and which have a marked influence upon the various branches of the calling. We refer to winter exhibitions, and winter conventions of farmers, fruit growers and dairymen. We are told that we must increase production. We know that we should. Then let us all plan to have the most successful series of winter fair and conventions ever held in C'anada. Not one
should be omitted. They all inspire confidence, and all do their part in increasing production. Farmers' Clubs and local organizations should oooperate with each other, and with the larger central organizations to make the coming winter the most profitable possibie to producers. Above all let the winter fairs and big conventions go on and help them to do more good.

## Why "Temporary"?

On all sides do we hear the remark that the resent great war is going to give 'a marked well as in other countries, Note the word "temporary." Is it not a fact that Canada as well as the United States has during very recent years been over-urbanized? We are becoming faster than many realize a nation of city dwellers with population cooped up into narrow streets, narrower houses and cluttered, stuffy rooms, while broad, fertile fields go uncultivated and unhabitated. The belief has been expressed since the outbreak of the war that the colossal conflict would
so revolutionize the world's business that it would be the end of great cities, or at least, would put a stop to the heretofore ceaseless and increasing dow of population cityward, and would be the cause of many people making a return journey to the iand; in fact many city born may seek to get on the land in the near future. Certain it is If the war is long-drawn-out and city bustness suffers as it may, many must of necessity get to the land where work is available if they are made

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ADDRSS-THE FARMER'S ADVOCATE, or
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cossful farmer must be a stayer. He must be a manager and a worker, a thinker, planner and laborer all in one. Those who fit will succeed Now, the yuestion is, why should any change, if change is necessary, be temporary? There is a great future for agriculture in Canada, war or oo war, and it remains with those already on the and and those who may now adopt farming as a aling to give agriculture a permanent impetus opeless rorary advance, to end in a hapless and or to pay his heavy share of the burdens following in the wake of war. Every farmer followthe land should cultivate more thoroughly than ever before, skould plan his rotations, and should the best advantage, and every new farmer should learn from his older-established successful neighbor and do the thing right at first and better read your farm paper carefully. Advanced prac ticall ideas are contained in every issue. Through it the reader gets the experience of thousands of hands to make a rapid and permanent advance ment in agriculture.

Supply and demand regulates prices, and also regulates to a marked extent the live-stock end go exhibitions were all ..rorse." a few year dear, and cattle were cheap. This year horses the live-stock section with sheep and pigs strons The latter three classes of stock are in demand.
"The "censor" must get tired of reading war news, but if he had to read some of the wild-cat break, he surely would become extremely bored He may be thankful his is not the "war extra"
A. B. Kluigh, M.A

Speaking recently of the preservation of birds I enumerated the following species as birds which should not be preserved-the House Sparrow, the Crow, the Cowbird, the Bronzed Grackle, the Yel low-bellied Sapsucker, the Cooper's Hawk and the Sharp-shinned Hawk.
The House Sparrow should be systematically destroyed, because it drives away from the vicin-
ity of our dwellings many birds which are most beneficial in their food habits, and which delight our ears with their melody and our eyes with their attractive plumage, because it eats grain, both in the field and in the barn, and because it makes a mess round our buildings. The intro-
duction of this bird from greatest mistakes ever made-a mistake for which we and our descendents will apparently, have to pay for all time. I say "apparently," because the House Sparrow could be eliminated from the
American continent. If a general, continent-wide, American continent. If a general, continent-wide,
crusade with guns, poison, and nest destruction were carried on for a long period this pest could some time, though realizing how hard such cooperation as would be needed for a successiul the best we can do is to keep our own premises the bert we can do is
free from this nuisance.

The Crow has some points in its favor, such as its fondness for carrion, and the fact that it harm which it does by destroying the eggs and young of other birds, and by eating sprouting
corn outweighs the good. It is quite safe for us corn outweighs the good. It is quite safe for us
to kill all the Crows we can. for the Crow is a wary bird, and there is no danger of its extermination, the only result of our efforts being la much-needed reduction in their numbers.
The House Sparrow and the Crow are wellally recognized. It is about eight inches in length. The male is iridescent black, witbj chocolate-colored head and neck, while the female is a nearly uniform dusky brown, rather paler be-
neath. As far as the food habits of the Cowbird go it is a beneficial species for the Coweats some gràin. it destroys enough noxious inBut in spite of its food habits the Cowbird should be killed whenever opportunity offers, because of its parisitic breeding habits. This
species builds no nest of its eggs singly in the nests of smaller species. The young Cowbird on hatching is larger than the rightful heirs, and gets most of the food brought to the nest by the parents, and not even content with this it hoists the other young out of the Not only does the young on the ground beneath. three to five nestlings of the brood with which is hatched, but it follows its foster parents about for such a length of time and demands so much food that species which would normally have a we see that are prevented from doing so. Thus the loss of from three to cowbird raised means as beneficial, in its food habits as the Cowhird or more so. And the more limited the breeding damage of our hirds become, the greater is the nests in wrought by the Cowhird, since more The Bronzed Grackle is a species which should not be encouraced, because it drives away birds far more melodious than its own "wheel-barrow-need-of-oiling squeek "" This species eats grain
to the extent of $46.5 \%$ of its diet, though a large part of this is probably waste grain left on
the ground after harvest. Cultivated fruit up only $2.9 \%$ of its food, mast, such as acorns $4.2 \%$. Of the animal foods taken over nine-tenth are insects and of these two-thirds are noxious
species. It also shares the habit with its cousin, the Crow, of eating the eggs of other
birds. So looked at all the waver that wrile its evil all the way round we see it is a species which mate be war of extermination without any iniustice. on the preserved list, because of the fact that in trees it leaves wounds which seriously lay layer of the value of the timber. It is the only one of mos among the most valuable hirds which we Dossess, because of the smlendid work which they
do in extracting the horers which would if left
enough to do much damage. How they can distinguished from other Hawks will be dealt
with later.

## THE HORSE.

## We colts. <br> d mares for fall

## The horse business may be a little slow just

Feed the colt well, especially just after wean. 1 and during the first winter

A carrot, once a day, will give the colt some-
thing to nibble at, and be beneficial at the

Action still counts for much in the drafter Avoid the animal which goes wide at the hocks ners.

Be careful with the weaning foal. Keep it in a stail or paddock that is high and strong; many escape to their dams.

If the colt's dam is required to work and he has reached the age of four and one-half to five months of age, he would do better weaned, and

High-class stallions will be scarce next year If you have a good breeding horse keep him, and tion you need one buy him now. It is not a ques

When bringing the horses and colts from the pasture there is nothing that will take the place each day, and the change will not be so notica able to the horses.

If you have returned from the exhibition after not having shown your horse or colt and still there, would it not than anything you have seen of your contentions by entering him at the winter fairs, or at next year's fall exhibitions and get in the game to stay

When the demand for horses for war purposes was made known in the neighboring republic
some commission houses bought indiscriminately. thinking to unload them onto British buyers. In the majority of cases they still have them, or have disposed of them at unprofitable prices. Englishmen prefer to ride good horses, and suitable sends her men

With so many horses being bred and so many imported, it is surprising how few are the real should have in view, but few of the matings made result in anything approaching what the breeder would like. Some come near to the ideal but these are few indeed, and othere need be little fear of over-stocking the market with clean-limbed,
short-coupled, nicely-turned, $1,800-\mathrm{b}$. draft geld-

## Fall Care of Hard-Worked Horses.

It is very often the case that very little extra work. Men who take especially good care of their working animals in the spring of the year are often inclined to overlook the fact that fall good fettle and ready six days out of seven.
Fall, on a well Fall, on a well-organized farm, is one of the is brought into seasons, and every avaiiable horse winter sets in and stops the plow. Every foot of land needed for next year's crop must be plowed once or twice and cultivated; there are roots to draw, silos to fill, and much heavy teaming to be done, and the horse must cool, in hard and soft ground. His coat is thickening up for winter, and he sweats easily and
ly, and altogether fall is a trying time. In keeping with the practice which has gainedl piace. in most large teaming barns, in livery stables, and on some farms, we believe that it is.
advisable during times of heavy work to feed advisable during times of heavy work to feed
little or no hay at noon and give more oats. Good feeders give very little hay in the morning feed of the day, filling the mangers to keep the
colt some
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Keep it in in trong; many
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to hali to for
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nop pext year.
poim, and


OCTOBER 1, 1914
THE FARMER'S ADVOCATE.
that horses are light sleepers and awaken severa
times during the night, when it is better the they have in the mangers a plentiful supply of sleeping, resting or eating, gets restlesss.
would say then feed most of the hay at ni would say then feed most of the hay at nigh

Regarding oats, there is a difference of opinion as to what quantity a good, big, (say 1,500 or
$1,600-\mathrm{lb}$.) work horse should get. Some hold that four quarts at a feed three times Some hold sufficient. For some horses it may be, but we are inclined to believe that where horses are at continuous hard work, as they are at this season of the year, and where they get a smaller ration
of hay morning and noon, that from five to six quarts at a feed three times daily is none too heavy feeding. We beiieve with an increase of oats and a decrease of hay the horses will do the
work more easily and will hold their work more easily and will hold their own better
than where very heavy feeding of hay is resorted to and a lighter ration of oats given. The conto and a lighter ration of oats given. The con-
centrate is the most easily digested, and the horse hard at work requires easily-digested food This is why it is not good practice to work a
horse whem gorged with feed, or to feed an overhorse when gorged with leed, or to feed an over-
tired torse as soon as brought into the stable By the increased grain mothod of feeding with fuil on going to the field and has an opportunity to rest at noon, instead of taking his entire hour to gorge his stomach and unfit him for his after-
noon task. Does the system not noon task. Does the system not seem reason
able ?

One caution we would give, however, is to be
careful of the quality of the oats fed. New oats careful of the quality of the oats fed. New oats
are often dangerous. Old oats are always pre ferable, but not always obtainable. The change from old to new should be made very gradually
and even for a time after the horses are on a and even for a time after the horses are on a too heavy. A little old corn might be not be help out in such circumstances. Farmers should make it a point, where at all possible, to save enough old oats to tide them over the fall work and never should the horses be expected to Ido the heavy work upon rough feed alone.
Some give no dry feed whatever, compelling nights, and then wonder why their through cold flesh, get sore shoulders, and sometimes fecome unequal to the tasks set before them. Such treatment is foliy. If a horse works he must eat good food, else he will fail in flesh
to the belief that his weather leads the driver water more than two or three times daily practice to lead the For best results it is good they are fed in the morning, when they should be allowed to drink all they require. After feeding,
and upon going to the field, the and upon going to the field, the horses should be
tried with water again!. It is not good practice to allow them to drink greedily after a heavy
feed of grain, but if they have been watered before breakfast a few swallows will do them afterwards, and they, go to the field fresh and ready to
do a forenoon's work. Coming in at noon, whether they are warm or not, they should have a little water which has been left pumped in the are very warm little should be given; if not too warm give ali they will drink. Then after din-
ner, as after breakfast, water again. The same proceeding should be followed at night. With six waterings a day the horses do not drink to excess at any one time, become accustomed to smaller drinks and often, and do much better
than if watered only two or three times daily. Another important item in fall care is bedding he horses abliged to make the foor of and stalls their bed. It would often pay to thresh of bedding for tired horses. Bedding should be carefully shook down each night the last thing
It no other season of the year are the curr The thickening coat of the horse causes him sweat easily and freely, and soon becomes hardly
matted over his body. This should be carefully ombed out each night, even though the coat is it out well at night, and clean all mud and clod rom the hair on the legs to prevent scratches and more troublesome complications. The fol-
lowing morning when the horse's coat becomes dry and just before harnessing it should be given a thorough cleaning with comb and brush, and a final wipe off with a dry cloth. Thorough clean-
ing means much in keeping horses in condition at
any season, and is doubly needed fall and spring.
Where horses are accustomed to it and where they receive a plentiful supply of hay and grain up until such time as the weather becomes Work horse should be exposed to bad weather, but
when the weather is warm and grass plentiful there is little oberjection to letting the workers out

Take grass is not enough for hard-worked horse better on a smaller quantity of feed this winter.

## Feeding Horses Heaves.

inveeding horses ill-cured or musty hay is on this kind should not be given to horses Hay of value, for if heaves are not the immediate ant
come the trouble may arise in the form of coli or other symptoms of incigestion. Clean, bright musty or dusty hate more grain is better than be taken rather than feed the ill-cured ple should However, in cases where it is necessary to feed it 1 -conditioned hay the dust should be shaken from water made by slacking be sprinkled with lim Salt sprinkled on the impaired hay would we ittle value, but the lime water has a beneficial of the animal hay and the digestive apparatus


Two Show-ring Veterans
wo gentlemen on the right have been seen in the show-ring at the Cana-
dian National for half a century,

## LIVE STOCK.

## Clean the Stables for Winter

It is no uncommon sight in going through the pens, and even horse stables in very bad condi-
tion during the late summer and months. The busy summer season on the farm with the stables not in constant use causes the and neat neglect very often to keep them. clean tion they should to the stables, even the attenwhen the stock is all housed. Now is the time to make preparations for the winter of 1914-15. Get through all the stables and give them a thorough sweeping down. Cob-webs over wincows obstruct light; clean them off, and wash the
windows clean to let in all the sunlight possible Few, indeed, are the stables with so much glass that half of their effectiveness can be profitably lost through cob-webs or dirt obstructing their usefulness. Go over the joists or sleepers and get into all the corners and crevices and clean up.
After a careful sweeping or brushing most stables would be the more sanitary for a thorough whitewashing. This makes them iighter and more cheery, and by making the whitewash a 5 per cent. carbolic acid solution vermin, if any, may
be destroyed.
While straightening up it is well to see that all ties and mangers are in good orcer, and ready with a rush, or at least the bulk of the stock is not stabled until a sudden cip of the mercury acthat the stock be kept under cover away from the biting blast. Much loss is often sustained by animals being forced to remain out exposed to inclement weather when they really should be in
ide, the delay being due to stables side, the delay being due to stables not ready require more feed to bring them up to their former condition, and the whole means a loss to their owner. Rainy days now or spare time should be utilized to place the stable on its win
ter footing. Be ready when the storms come.
steer pen or in the dight down in the where values ar are determined, stairy and is milk cow valued according to the pounds of milk and fat she will give, or the steer by the The value placed upon on at a nominal cost. detriment to the furtherance of better breedine but the good ones are worth all that is being. asked for them. It is not necessery for the mass of people to strive fore pure-breds, but we build up the blood. Then if stockmen iove and will pay a fair price get the good bull and improve the grade herd, they are going a long way towards better live stock husbandry. We do not imply that grades are as of blood yet in many cose haven't the intensity pedigreed animal. One of the most outstanding features and lessons of this season's showing was the exhibit
of grade dairy cattle at the Ottawa Exhibition. True to dairy type, and displaying every mation. being workers, they gave evidence of the wark of of the system of improving through pure-bred
of the yet There they were without name or pedigree yet good enough, many of them, to put some out as a herd with a pure-bred sire at their bead they demonstrated what more of our general stock should be like, and how it should be mated to improve rather than retrograde. What we re pure-bred stock industry pure-bred stock industry, and a keener apprecia-
tion of the value of a sire by the average stockman. Herds of the beef breed came into the ring this year that showed plainly the greai head. Many defects in welh-fleshed bull at their out in one generation in these herds could be bred out in one generation through proper mating, and
the same possibilities lie within the reach of th grade herd stockman. Let a man consider 10,000 pounds of cows that will give 7,000 or difference of approximatelv $\$ 30.00$ on meack a mal in a season or a difference of $\$ 300$ and would of ten for the same length of time. It would be economy and a good investment to add
that $\$ 300$ to the purchase price of the bull to
heìd the herd. Grade herds are a sound produc-
tive institution on any farm, but they must have tive institution on any farm, but they must ha

## FARM.

Some Considerations on the Weed Problem of Canada.
"It is unnecessary here to defing the term done by (weeds as this is obvious to all who have ever engaged in cultivation of the soil. Pamunel
in a very comprehensive work on "The Weed in a very comprehensive work on "The Weed loss in that State alone as amounting to \$25,oe0,000 yearly. Henco it is apparent that the control of wepds is a subject not only of urgent
but of ,vast importance.
Nevertheless the question is not altogether one ods seldom produce permanent results. The case is rather one thet calls for calm consideration and patient investigation, and the following sug-
gestions are put forth as a preliminary step in gestions are prot forth as a preliminiry step in
solving the problem of weeds and devising means for holding them in check. For this is all that we can ever hope to do, as anyone who has ever
kept even a small garden plot knows perfectly kept even a small garden phot knows perfectly
well. You may redue weeds to a minimum, but you can never get absolutely rid of them as long as seedtime and harvest remain. With resolution you may succeed in extirpating some of the most
troublesome species, but other species will as troublesome species, but
quickly take their place.
Long ages ago when the herds of Buffalo roamprimer the prairie and the forests grew up amid primeval stillness there was very little change in
the sippcies of plants occupying any particular area from year to year. The struggle for exist ence among the various species had been prolong
ed, but each had at length found its settled place in nature, and any change that took place in
their distribution was necessarily slow. But when man, sespecially the white man, came upon the scene all this was changed. He ploughed the prairie and cleared the forest thereby disturbing
the balance of nature which it had taken the balance of nature which it had taken
centuries to establish. Thereupon a fierce strug gle for existence ensuued among the specips of plants disturbed which was intensifiet by the in-
trooduction of new spocies. Not only had the troduction of new species. Not only had the
native plants to fight for room among themselves native plants to fight for room among themselves but they had also to hold their ground against
the foreign species introduced. $I_{n}$ In this strugyle some of them disappeared while otherrs found the
new conditions more favourable to their increase. new conditions more favourable to their increase.
But not only did civilized man bring with hin But not only did civilized man bring with him
the useful plants which he desired to propagato the useful plants which he desired to propagate he also, uninteptionaliy, no doubt, brought with
him the seeds of noxious plants. These also en deavored to ind a place for themselves, and the
combat became a triple warfare between the combat became a triple warfare between the
native vegetations, the useful plants, and the introduced but useless species. If If left to themselves most of the useful plants would in a few
years have succumbed some years have succumbed, some of the foreigners
would have established a place for themselves and eventually a balance would have been once more restored between the surviving species. Rut man took the part of the useful specipes he had the plants he desired to grow and the plants $h$ did not want-the "weeds"-went constantly on Every time he ploughed a field he disturbed the establish, for it is as true that nature trying to piece of bare soil as it is that nature abhors vacuum. And precisply the same thing is going on at present. Obviously, therefore, the war be-
tween the farmer and the weeds is a never-end
ting one tween
ing one
But "knowledge is power," and if a farmer
has a clear understandiny of the pife a weed and attacks it at of the life history of contest will soom be decited in his favor. it should be borne in mind that almost any herb-
aceous aceous plant may become a weed. The farmer
should,
therefore, not only know with the weeds he has onle know how to deal should keep a sharp lookout for the possibl arrival of new species. The geographe pas distri-
bution of many plants is rapidly changil present day owing to modern facilitigesing at the and commerce. As an example the Common trade weed (Senecio Jacobaea L.) was first noticed in while in 1909 it was found the year 1880 Prince Edward Island, Newfoundland, Nuebe Scotia, tario, and as far south as NPw Jersey
In order to be in a position to deal with th:
question of weeds in a ner, it is obvious that the more one scientific man the weed its manner of growth the botter fitted will one be to combat it. Good work has been done in Germany along these lines as is att sted
by the series of monographs on varions published in Berlin by the German Acricultural
Society. But this is a study that each counter
must work out for itself as the mode of life of
any particular weed is by no means the same in any particular weed is mamle, Darwin mentions
all countries. For examplen Pampas of South America grew so tall that a man on horseback had difficulty in forcing his way through them. In other cases a speciss that
is injurious in one country may be harmess in another. South American Dodder seeds, for example, if sown along with clover 'in Ireland rarel. germinates as the temperature is not suffciently extensive as Canada where there is great diversity of climatic conditions, investigations to be of much value would require to be carried out in
several provinces of the Dominion. several provinces of the Dominion.
The further consideration of the
may conveniently be arranged under three heads. I, Scientific Research; II, Educational Methods III. Legislative Action.

> I. Scientific Research.
I. Geographical Distribution.
will be to ascertain the first thincs to be done weeds in the various Provinces of the Dominion As almost any herb growing wild may, after the


First Prize Berkshire Boar.
This hog won at Toronto for S . Dolson \& Son, Nor
ground is cleared or broken up become a weed this will mean a somewhat comprehensive botan ical survey of each province, or at any rate of
the more settled parts. A list of the weeds each province should be compiled and tabulated I the order of their importance, the most troublesome being placed first.
2. Whether a native species or introduced It would be desirable to know whether eacl or has been introduced from a native of Canada If introduced, the date of its first appearance and ar as possible introduction should be known as troduced at the present time. Formerly many weeds found their way into this country in the
form of impurities in farm seeds.
Of the
71


Duchess 50th
. specips of weds illustrated in Clurk \& Flıtcher's among seeds left undi
'Farm Weeds of seen introduced from other countrics. Notwi have lark, Seed Commissioner oontrol Act. Geo. II werdsed me that from 10 to 12 newa, recpntly weeds are being imported into C'anada year. A somewhat, sminiar state of than e e ery
vails in the inited weeds of the United states inm sherl int of 200 that some weed seds when buried in the soil
will retain their vitality for thirty years at while 92 arc 108 speci s are of foreign origin, least, whilp Peter of Gottingen states that the While 92 are native.
introduction of wer are of toreign origin,
feeding stuffs, in manure, by threshing machines,
or in imported wool,
3. Relation to the chemical
composition of the soil.

Some weeds such as Blue Weed (Echium vulSheep's Sorrel are characteristic of soils such as in lime. Many species will thrive equally well on all kinds of soll.
4. Relation to the various
crops grown on the farm.

Some weeds, especially annuals, grow best on are held in check if while they disappear or such as Canada Thistle will grow readily on both pasture land and cultivated ground.
5. Natural means of spreading.

Some weeds spread over the surface of the ground by runners, others by underground crepe
ing stems, while others ing sterss, while others-the "root-bound"" species
-such as Dock remain more or less confned to one spot. 6. Dispersal of fruits.
If spread by seeds or fruits the manner of dispersal should be known, whether by wanner of or
drititig sinow, or drifting snow, or water, either in the form of
flooded streams or by heavy rains running of flooded streams or by heavy rains running of
sloping ground; ${ }^{\text {in }}$ other cases the fruits are Sloping ground; in other cases the fruits are
carried on the wool or hairs of animals, while in a large pereentage of weeds there is no special

> Time of fowering and time of ripening of the seed.

In some cases the latter will coincide with the ing, while in others it may be earlier or glater.
8. Number of seeds produced by a
plant of average size each season

It has been found that weeds which spring up
 Creeping Thistle which spread so freely by underground organs, produce seeds annually in com-
paratively smail
numbers, as there is not the aratively small numbers, as thene is not the
same necessity for the production of seeds to perpetuate the life of the species. At any rate,
this is so in other countries and probably the same thing holds other countries and probably the same thing holds good here. In other cases, such abundant production of seeds aboye ground, hut the plant spreads rapidly below ground at the same time

## Time of germination of the seeds when self-sown in the ground.

In the majority of cases the seeds lie dormant in the ground during winter and verminate in grass the seed germinates shortly after ripening and produces a small plant which survives the winter and continues its further growth in spring.
ried in the soll. Opinions seem
differ as to the to differ as to the
length of time during which seeds retain their vitality. Ewart in his first series of experi-
ments gives about 15 years while in
a
later series $h e$ a later series he
says that some germinated after keep-
ing for half a century. In both cases he appears to have
worked with seeds worked
stored ith a dry
mut it is place. But it is
well-known that many seeds 10se
their vitality in a short time af ter
ripening unless they are planted in the Duvels ex
periments with
wots buried seeds in pots buried
at different depths, though interesting, probably do not condition prevailing My own observations have shown that number of different species of weeds obtained by washing the soil underneath a pasture field when had not bultivated for at lean important bulletin on Michigan weeds, states will retain their vitality for thirty years the seeds of wild Mustard (Brassica) can
vitality for forty years.
11 . Relatior to moisture.

Certain weeds like Silver Weed grow best in a by the dissemination of suitable literature would Hawkweed are more partial to dry situations others again are more or less indifferent. Ther still considerable room inquiry as to the weeds. the Prairie Provines In the Prairie Provinces the rainfall, after
harvest is frequently so slight that the weed eeds cannot be induced to germinatis when plowe of eradicating them.
12. Relation to temperature

While seeds when buried in the soil can under go very rigorous temperatures in winter, the
oung plants produced by them after germination are much more sensitive to|frost. As negards the
exact temperature, however, at which weeds and heir seeds are killed by frost we have very and information at present
In this connection it might be of some use to ticts of the average date of occurrence first frost in autumn.

Susceptibility to chemical sprays.
The effect of various chemical substances such as copper sulphate, iron sulphate, sodium arsen
ite, etc., on various weeds has furnished usefu ite, etc., on various weeds has furnished useful
results in some cases. While the method is not under ordinary circumstances, ane to be adepted as a substitute for the older well-eatablished methods of controlling weeds, still it is as wel to know what can be done in this way. The effect on various species of weeds at various period would be worth trying. up to the flower not kill the weed, if it injured it sufflciently to revent the formation of seeds it would be somedue University Agricultural Experiment St Pur Indiana, to determine the effect of spraying Wild Garlic with orchard heating oil, and the results,
it is claimed were very satisfactory The spraying methy satisfactory. suited to cereal crops where ordinary methods cultivation are not applicable
14. Relation to the live stock
of the farm, birds, etc.
arious plants which are usually considered weeds may yet be very useful when growing on a
pasture field, for example, Ribgrass. Cllark \& Fletcher in "Farm Weeds", Ribgrass. Clark \& number of weeds which are frequently eaten by sheep. Pigs and poultry also eat a considerable number of weeds, and doubtless there are some
which are relished by horses and cattle. But it would be poor policy to spare a weed because it is eaten by some of the domestic animals if more useful plant can be grown in its place. plants are eaten by live stock by preference rather than by accident would be worth trying
and could be easily carried out. There are and could be easily carried out. There are
large areas of marshy, stony or scrubby land which cannot be cultivated and are only adapted for grazing, and the term weed is much harder in such places many plants of poisonous nature must certaindly be considered as weeds and should therefore claim attention
There still remains the question of birds in
their relation to weeds their relation to weeds. Some fruits, especially tirse which are juicy when ripe, are dispersed by
birds these form only a small percentage of weeds. On the other hand it has been proved beyond a doubt that certain birds eat and destroy every season a large number of weed seeds.
They are thus indirectly of service to agriculture. A prudent farmer will naturally take every means to prevent weeds from seeding rather than
depend on birds to help him out of his difflcullics. Neverthelpss, in spite of constant vigilance and the services of birds are not by any means to be dispised. The important question. is-
"What seeds are eaten by what birds?" "hat seeds are eaten by what birds?" the way to a better understanding of the life and growth and spread of weeds, and the best meth-
ods of eradicating them would suggest themselves as a natural consequence. Work of this nature milght be undertaken by colleges, and the Departments of Agriculture of II. Educational Methods. seady aper. useful works on weeds have al
appeared in different countries.
Foremost mong these is Pammel's "Weed Flora of Iowa" and 570 illustrations. Othere than 900 pagef
pith bulletins pub lisherd in the United States are Bollev's "'North
Dakota Weeds." Blatchley's 'Indiana Weed Book' and Beal's "Weeds of Michiqan." In Fngland,
th. Ihest-known is Long's ""Common Weeds of the Farm and Garden." and more recently Praeger's
"Weeds, Simple I Tpscons for Children." while in Caralla we have Clark \& Fletcher's "Farm Weeds An educational campaign on weeds accompanied
loubtiess be productive of good results. omewhat similar lines to that of Praeger in reland) in which only general principles, the tion, etc., of weeds are dealt with would fill a A short bulletin on, methods of eradicating weeds specially intended for farmers would probably be largety availed of. Specimens of wreeds
and queries as to their names, nd queries as to their names, method of propagation and mode of destroying them are conal Farm from all parts of the Dominion, show-


Southdown Ram
McEwen, Byron, Ont. Exhibited by R.
ing that farmers are on the alert and take
them. Howitt's "Weeds of Ontario" might well serve as a model for the other provinces to copy. are rare in or absent from the other provinces and the publication of a bulletin of moderate size dealing with the Weed Flora might well be cerned. Then something might be done in the schools
to familiarize children in rural districts with the


Jas. Snell \& Sons' Champion Leicester.
readily avail themselves of all the information ailroad car is cases where a special touring smail section is might well be for demonoted to mounted In addition a plot of ground might be set apart at each of the branch farms on which ous plants of the province concerned could be grown and properly labelled. Visitors to the names and general appearance of the plants. An the purpose, and the person in charge of the for would require to see that creeping specimens were kept within bounds, and that none of the weeds were allowed to develop seeds.
III. Legislative Action

The keeping of weeds under control is a matof the farmer. hold his own in the battle against weeds there vent the weeds on his farm must do-he must premust at all costs his farm from seeding, and he weed seeds from outside sources. In the latter the farmer already, and may be even more bene ficial in future. There are at least four ways in which a farm may become contaminated by weed seeds from outside sources: 1, impurities in the
seeds sown; 2 , weed seeds in feeding stuffs; 3,
threshing machine threshing machines; 4 , wind-borne seeds from waste ground or neighboring farms. trol Act has undoubtedly made the weed queseven under its operation a certain. percentage of
weed seeds are still sown with every crop. The weed seeds are still sown with every crop. The done much to separate a large machinery ha impurities, but in every species of farm of weeds
there will often occur a few weed seeds the same size and diameter as the seeds of the will remove. It would not be difficuly yet invented list of these. The next step in securing clean seed would be to make a rigorous inspection of species by hand-puiling or other means. In this way the ideal might be reached, namely, where a sample of seed consists only of the species men-
tioned on the label and no Pammel says: "The only way tors. Ass. Dr.
seed law is to have fields in to enfore any seed law is to have flelds in' whieh commercial seed is grown inspected by some competent botanist. The seed should not be sold unless the
weed seeds can be removed."

## arise in questions

 nection, nammoly . $\because$ Is the ${ }^{2}$ anely ment of an 'Extra ll kind grade $\mathrm{f}^{\circ}$ own desirable? and should the degrade be taken as grade be taken as!a sample of seed
which consists of which consists of of
one species only one species only
and is absoluteiy and is absoluteiy
free from all weed
impurities ?" This impurities ?", This idea should be pos
sible of attainment in the caseo cereals, cande of a
already been at already been a t. tained in samples
of a 1 f a 1 f a a $\mathrm{n} d$
timothy of aimothy tested a t
tuelph. The second Quelph. The second
question is. Should question is. Should empowered to visit empowered to visit
the crops intended
for seed, and is for seed, and if
these are not conthese are not con-
sidered sufticiently
free ree from weeds be allowed to grower he crow for se sed
purposes? For ex correct names, habits, etc., of about 50 of the Cockle is found growing in ample, if Purple most troublesome weeds of their own province. the produce of that field be allowed to be sold them in after years. They might even be in- orsect, wenld the standing crop were not duced to make a collection of the weeds of their produce a perfectly clean sample and charge a he lar, prizes being offered to those who make Dried and carefully mounted specimens of weeds and poisonous plants might with advantage be exhibited at the various provincial and
local shows. If at the same time a brief exlocal shows. If at the same time a brief exweeds concerned were given by the officer in
charge and suitable literature distributed, there is every reason to believe that farmers would
inspected, it would probably pay the grower to higher price for it. 2. It appears from an article by Prof. Howitt are being spread in the form of feeding stuffs. robably further legislation will be required to o use the cleanings of threshing machines as there would be little objection to the practice But the smaller seeds are liable to escape being
crushed, and may find their way back on to the
farm again. The laws in the Prairie Province
require require such seeds to be so treated that their
germinative capacity is destroyed. summary method of accomplishing this would be to burn them. But doubtless boiling them for
an hour would serve the purpose just as well, an hour would serve the purpose just as well,
and they could then be used for feeding purposes
or consigned the or consigned to the manure heap.
3. Threshing machines are required by law in
the Prairie Provinces to be thoroughly cieaned the Prairie Provinces to be thoroughly cieaned before proceeding from one farm to another, and
this practice might with advantage be made compulsory in other provinces.
4. If there is one thing more calculated than another to dishearten a farmer in his struggle with weeds it must be to find his efforts nullified
by the carelessness or laziness of his neighbor by the carelessness
who
supplies him
or laziness of his neighbor who supplies him every year gratultous-
ly with a fresh stock of air-borne weed
seeds. For a hardship of this kind
legislation would her legislation would appear to be the only
remedy. But legislation is useless uniess it is
enforced. and it appears that in provinces enforced, and it appears that in provinc
that have a
thaw is toxious Weeds' Act then ly the best way to remedy this wôuid be to have a Provincial Noxious Weed Inspector appointed as a permanent officer under the Department of
Agriculture in each province. As the work would Agriculture in each province. As the work would
be largely undertaken during the summer months a number of terporaray inspectors would be required, and it is very likely that the students at-
tending the various agricultural colleges would be available for service. No great amount of training would be necessary to identify the weeds concerned, the students would gain experience,
and at the same time would benefit themselver and at the same time would benefit themselves
inancially, which in some cases where they have to rely on their own resources for their education would certainly be a boon. This plan of empoying the students in summer has been of Agriculture and has worked well. the owners of waste ground railway this matter should also be made equally amenable. Unless the work is done thgroughly and completely To begin with, too large a number of species shouid not be included as noxious weeds, and these should be cut before they come into flower.
If allowed to flower certain species can perfect their seeds even after being cut. All plants their seeds even after being cut. All plants
whose seeds are carried by wind or by becoming
attached to the hair of animals should be men attached to the hair of animals should be men-
tioned as noxious weeds. Then poisonous plants tioned as noxious weeds. Then poisonous plants
should also be scheduled in the list, and probably also weeds which spread rapidly by underground stems and roots. But other weeds which have no special mechanism for spreading from
one farm to the next should not be included, as the farmer is already protected against the introduction of such by the terms of the Seed Control Division of Botany, C. E. J. ADAMS, Ottawa.

## A Hint to Manufacturers.

In your issue of September 3rd is a question
Inout filling silos with carriers the answer is rather misleading. Carriers set only ten feet
from the silo would be so straight that they Crom the silo would be so straight that they
would elevate a very small quantity at a time, silo to prevent waste, especially if there was a wind. Our silos round here are about 24 feet high, and we have been handling a carrier for the
last seven years. We use a platform about 15
inches high inches high, and the carriers work from a jack placed on the platform 17 feet from silo. We
have found that 32 feet of carrier is the shortest that will do good work. For a 30 -foot silo 40 gasoline engine will run it easily, but would i
not also run a 10-inch blower which will do bet
ter work? is W ter work? If W. H. D. gets a carrier machine I would advise him to get a single chain carrier.
Now that I am on the subject of silo fillers I want to use it to ease my mind with regard to
the plea of the manufacturers that should support home industries. ${ }_{1}$ wanted get a "medium-sized "blower,", one that would
cut 6 to 10 tons per hour and coud a $10 \mathrm{~h} . \mathrm{p}$. gasoline engine. As I coutdn't see the ma catalogues, and so I looked in "The Farmer's only two Canadian made machines advertiond later another Canadian joined thems. advertised,
Now, Mr
Editor, is that the way Editor, is that the way to keep, or rather re
gain, the home market? Where are the other gain, the home market? Where are the other large
manufacturers? Don't they want a share of the
home market? have lost track of most of them. I found b writing a certain plow company that it had been
bought by an American company found that company had thrown it. in the scrap heap, probably to get it out of the way of
the American machine they are selling. Howeyer pare the machines, and right here is a great dif.
ference. The Americans seem to try to tell us as much as they possibly can about the article
they have to sell. The Canadians seem to tell no more than they can help. Some are content width of throat and the capacity they claim. The Americans based their capacity on their shortest cut; only one Canadian mentioned the matter.
Two of the American cataiogues specified gasoline power and the third gave both steam and gaso line, while the Canadian catalogues all use steam as the unit of power. What is the sense
of that? How many farmers have or want to buy a steam engine to-day? Gasoline or electricity are the up-to-date powers. On many o the machines the travelling table is too short c-foot table. Thsre are other points of equip ment in which we are behind, but I have said enough. If Canadian manufacturers want to re gain the home market they must advertise and
revise their catalogues, as well as bring their ma chines up to date.
Grenville Co., Ont.

## Saving Sorghum for Seed

Editor '"The Farmer's Advocate":
In regard to saving Sorghum or sugar cane seed I would advise for one's own use, or for small quantities to go through the patch just be-
fore cutting and gather the largest and darkest coiored heads. Tie these up in small bunches
cone and hang in a ventilated room, preferably with a little artificial heat, and leave without threshing
off of heads until ready to sow. As for large ofu on heads until ready to sow. As for large arrived at a satisfactory method, although IT have been trying for many years. Heating and
moulding when in any considerable bulks, either moulding when in any considerable bulks, either trouble. It wili often remain out all winter, if heating is prevented, and a variable percentage
grow in spring, but there is too much uncer-


Cutting the Corn.

- her this great crop have been cut this year $\begin{array}{ll}\text { Thousands of tons of this great crop have been cut this year. } & \text { cream which is eb } \\ \text { ing sold. Otherwise }\end{array}$ spread on the floor in a ventilated room, stir the separator is sample taken from one run horses tramping it, as our fathered thresh with above or beiow average as much as fit may be peas. Sorghum should be cut just before frost Middesex Co., Ont. EDGAR M. ZAVITZ.
Mid

Ontario's Agriculture Will be Fostered.
 heading "Curtailing Agricultural Expenditure" It is quite true that this Department like everytion forced upon us by the war, but any cial situapercentage of the entire work of to a very small t am glad, therefore, to be able to assure you
that there is no intention on the part of the ye
partment to "curtail expenses production and the country at the expense of
fear While it is probable that the usual series ot institute meetings may not be held this series
ter, fou tma, rest assured that there will hee
plenty of miectings and educational arencies
various kinds the various kinds to hring to the attention of the
farmers the demands created hy the present situa-
tion for- an increased macuction with sour statement in an andoninge column agree the changes in reference to the expert indges or
fuitus in any way. later does not affect this year's the suggestion what would als, like to endorse
everyone should unite in the wont is a time when
is a time which callis for some sacrifices on the
part of all. The Department, as in the will be prepared to assist all those who will past, themselves, and I think it will be found befor the winter is over that the Department will have
done its part in leading this movement, Toronto, Ont. Minister of Ag. DUPiculture,

## THE DAIRY.

Greamery vs. Independent Tests. Editor
Some of the creamerymen are
objections to the creamerymen are raising strong objections to the tests made by independent
parties, and claim that these tests place then a very unfair position. The chief ground on which they base their objection is that on samples sent by patrons are not representative of
the quality of cream delivered to the hauler or to the creamery direct. One man sama that in a case at his creamery, ordinarily the wife or children turn the separator, but when a
sampie was taken of the cream to be sent to sampie was taken of the cream to be sent to the
College for testing the farmer turned the separator himself at an increased turned the quently the cream tested much above normal and
this was the cause of considerable trouble 'be tween the creameryman and the patron. There is a good deal of truth in this contention, hence it may be well to clear the ground of misunder-
standing on this point, so far as tanding on this point, so far as possible,
In the first place it may as well be understood his tests, has a perfect right to appeal to an independent, competent party. Nearly to an creameryman will concede this point, although patrons send samples to other parties when patrons send samples to other parties to be
tested, as they seem to think it a reflection on
their honesty and square business dealing. This is a mistaken inea
as farmers, general as farmers, general-
ly speaking, have
no way of testing heir cream, $a_{n}$ nd rightly or wrongly
are inclined to be suspicious of the tests. There ought provided whereby ness could be usiaced on a better and basis. satisfactory In the second
place, the patron place, the patron
who sends a sample
of his cream independent to an skiould be sure that it is representatiye of the quality of per cent. fatiow average as much as five, or more
$\cdots$ "speed" and "feed" of the separator fore is that portant factors in deciding the percentage of fat
in the cream, and in ordinary practice
farm farm, these are seldom or never constant. The best way to get a representative sample
of the cream1 is to take a sample from each de-
livery or have the livery, or have the hauler or creameryman do
this, keep the sample under lock and that keep the sample under lock and key, so
the can be no tampering with it, and at
the of the test period whether inily the end of the test period, whether daily, week-
Iy, bi-monthly or monthly, send or take the
sample sample to a competent, independent person, and
where this is done, wo take the not be over one per we venture to say there will creamery test and that of the arbitrator, where
the creamery business. If the an honest, straightforward "square deal", the creamery is not giving a
it the better Where the test period is for one week or
longer, the sample should be preserved with a longer, the sample should be preserved with a
tablet or with a three-one, potassium bichromate-
corrosive corrosive sublimate preservative, which is cheap
and canr be got at any drug store. Five or ten
cents will loty cents will buy all the preservative a cream Where a composite sample cannot be con-
veniently taken, then the next takenty taken, then the next best plan is to
takimple from the can of cream as delivered to the driver, railway,.. or cream as delivered
thoroughe after thorough stirring of the contents of the can, be-
cause if taken from the top of the can it will not
le repren cause if taken from the top of the can it will not
le representative the test will be too high, as
the richer creal the representative-the test will be too high, as
the richer cream will be found on top of the can,
the same as in milk. If a two-ounce bottle is
filled. corked
at once, it will not, as a rule, need any pre- and is at present (I believe) milking some fifty
servative.
In order that a matrons should learn a lot about any In ordor that patrons may understand the chine in that should learn a lot about any ma-
ene great objection ty these
effects of increased or orecresed feed and speed,
and the effects of allowing too much ont and the effects of allowing too much of the bowi flushings to go into the cream at the end of the
run, a word on each of these may be in order, run, a word on each of these may be in order,
although they have been frequently referred to in dairy writings during recent years. All cream separators are made to run at a' ${ }^{\prime}$ cer-
tain speed in order to do efficient work. While tain speed in order to do efficient work, while wille
a slight variation below normal speed will not cause any serious hoss of fat in the skim--milk, it
is always' well to run the machine at, or slight1y above, the speed advised by the manufacturer.
Whenever the speed drops below normal, the Whenever the speed drops below normal, the
skim-milk is not so completely separated from
the cream which results the cream which results in crean with a lower
percentage of fat-or it lowers the test.
 hande per minute means one per cent less fat in
he cream. On the other hand an increased speed above
normal causes more complete seanaration normal causes more complete separation of cream
and skim-milk, which means cream that tests higher-as a rule, an increase of one revolution per minute of the handle above normal, , adds one
per cent fat to the test of the cream. per cent fat to the test of the cream. (The fore-
going rules are not absolute ar the resultss vary
with
different
types of separators arious conditions.) on account of speed being such an important
factor in the separation of cream from mikk with a centrifuge, or what is commionly called a separator, there should be some simpie arrange-
ment on a separator so that the operator may know at any time by a glance, whether or not stand that such an attachment can be now pur-
chased, but they are rather chased, but they are rather expensive, and there
is some doubt as to their reliability All separators have some feeding by it is impossible to overfeed the machine, so long as the feeder is working properly, but the some effect on the volume of milk which flows the ton the separator. If the supply tank be kept filied all the time during the run, more milk will stant, this causes more skim-milk to go with the crearn, causing a lower test. On the other hand, if the tank have only a small quantity of milk in
it at any one time, less milk tends to run out in a piven time, and if speed be constant, the
separation is more complete and the cream tests higher.
Some use warm water for flushing the separcase, if too much be used to flush out the cream at the end of the run and the excess is allowed
to go in the cream pail, it results in lower testing cream. The cream spout should be closely the bowl and spout, the cream pait should be ree
moved and another vessel be put under; or the moved and another vessel be put under; or the
spout should be turned to the skim-milk vessel.
There is against the bowl and injuring it, hence it is better to use another vessel to catch the last of the
flushing, and not run the risk of denting the
covers by turning them while the bowl is the
ning. When these points are considered, we see how
ensily there may he considerable diference in the test of the cream from one run as compared with
another, and also why there may easily be wuite another, and also why there may easily be quite
a difierence between the tests of cream as given
at ed party.
The farmer or cream-producer is practically at the merey of the cream-buyer, and there seems to
be no practicable plan of overcoming this system.
Om a be no practicable plan of overcoming this system.
On account of this, the man who sells cream is
inclinel inclined to question the accuracy of his tests-
sometimes with good reason. $H$ He then appeais to solnetimes with pood reason. He then appeais to
some disinterested party, and when there is a sife rence betwen the tests of whe two parties,
dhere is likely to be trouble. It certainly is a complicated. problem, and the solution does not
appear to be io sight at the present time
O. A. C., Guelph. Ont.

On Milking Machines.

## Edit or "The Farmer's Aavocate": In reading over the article in your

In reading over the article in your, paper of
September 10th, on ."Milking Cows," by Prof.
 struck with the eqact that the Professor is not in
avor of the mechanical milker, and I think this article may have much weieht in inducing many
who might otherwise view it favorably to think the machine is a dream of the future Now tet me say Now, let me say, personally speaking, that as
we have used our machine only five months we are not eligible to to speak definitely; but cut could you
Mr. Editor not ask, throug the medium of your Valuable paper, for users of a year or more to
give their opinion on this machine that is as yet n an experimental stage. We haverimentar intarae. neighborhood a dairyman who
keeps only purebred Jerseys, he has used the keeps only purebred Jerseys, he has used the
mechanical milker for some ten
the average dairyman. Last
chine duecember a ma to Canate reasonable in cost was introduced in-
since then about four hundred have been sold to ontario farmers. This ma-
chine by having chine by having a small pump for each unit
does away with the large vacuum pump and pining, and takes only about 25 per cent. of the power required for some other machines; and, as
far as the writer can see, does fully the equal of iar as the writer can see, does fully the equal of
tho other machines known.
Ontario Co.

Dairy Products at Ottawa Fair. Dairy products thris year sprang into the lead
over previous years by three times as much bat ter and a quarter more cheese. The quality was good in most, products, and, considering the
month of August, makers should on the quality of cheese they put out. Follow ing are the awards in butter put out. Fheollow-
where for their product are equal, and the prize sones is divided equally between them. wood, Ont.; 2 and 3 , Beniamen Howe Atwor At and ©. (G. Wiltsie, Vankleek Hill ; 4, Frank Lewis
Kempville; 5 , Renson Roy Hastings, Atwood, Ont. August white : 1
Henry Youn, Henry Youn, Aistowelt, Ont: 2 , Roy Hastings ont.; 5, Wm. Morse, Trowbridge, Ont. colored and white: 1 and 2 , Joon ©, Donnelly,
Scottsville, Ont., and Jos. D. Henderson, Smith-
 Listowel, Ont.
 Wyman; 3, Mrs. J. J. Connell, Manotick Station;
4, Alf. Wallace Northhion 4, Alf. Wallace, Northflower. Dairy tubs: 1 , Mrs.
Alex. Meldrum; 2, Owen A. McLaughlin: ${ }_{3}$, Mrs. J. O Connell; 4, Mrs. J. H. Pillar, Winchester erecial tubs: 1 , Mrs. Alex. Meldrum. Cream.
ery butter, $56-1)^{2}$, box: $: 1$, Adjutor Servais, St, Hyacinthe, Que. ; 12 , Jos. E. Pelletier, St. St.
Morton, Que.; 3 and 4 , Albert Bourbonnais, St. Porycarpe, Que, and Aif. Loiselle, St. Jean de and Ovide Nathier Vrints: 1 and 2, Edward Frechette, St. Felix de Alf. Toiselle, and W. Jackson, Marketville, AIta Special salt prize: 1, Edwara Carter, Cor
viliez 2, Renjamin Howes.
Syndicate prize Robt. Thomson; 2, Thos. Whattham.

BUTTER-MAKING CONTEST
Following is the list of the prize winners in Free for all class: 1, Miss R. Patton, Rich
mond Hill, Ont.; Gower, Ont, ${ }^{3,}$ Mr, A. Lapalme, St. Hugues,
Ont., 4, Mr. Jno. Anderson, Renfrew Ont Amateur class: 1 , Miss, Flora Sylvestre, St.
Simon, Onti; 2 , Miss Blanche Sylvestre, St.

## HORTICULTURE.

Propagating Currants.
Many gardeners at this season of the year be
come interested in the propagation of much of their berry stock. Enquiries of late concerning
currants have been numerous and the season is ter outtings may be made and placed in the cellar for transplantation in the spring. The
old-time custom has been to take the cuttings during the latter part of August and the first of September, and plant them at once in the nursery
row. Usually they are placed about six to eight inches apart in rows three feet apart, and
so deep that only the top bud or two will he above ground. This depth insures ar two will be be root
system and a vigorous plant. The cuttint systen and a vigorous plant. The cuttings
should be made about eight inches long, and cut should be made about eight inches long, and cut
off squarely at the base.
should be made uite che cose to the ber cutting shoull be made yuite close to the bud, as thisg
assists in the callousing of the iniured part and assists in the callousing, of the iniured part and
facilitates rooting. The cut should be made at the upper end at least half an inch above the top
bud, so there is no danger of the wood drying bud, so there is no danger of
out past that point of growth.
The season designated as being suitable for taking cuttings is past, of course, but some
growers in the Niagara District use the slacker winter months for this work. Under this slacker
the cuttings are taken in the late winter and the cuttings are taken in the late winter, and
placeal in moist sawdust in the cellar. Here the
cut ends will hecome calloust
 and the land is thit to season opens in the spring are placed out in the rows and growth continues
as under the former method, only under very favoralile circumstances the fali-set cuttings may

## Prospects for Fruit Marketing.

 result of prospects are rather discouraging, as aren
troubled state of foreign markets and conditions. Added to this we hear that
Great Britain has a very heavy fruit crop, Old Country commission merchants are of the opinic, $n$ Chat there will be a market for about half of a normal crop, mostly No. 1 grade on present out-
look, as No. 2 and No. 3 grades are usually the apples of the working classes who are now oniy partially employed. In it isses stated also by English
manufacturers that Iunlest manufacturers that unless export orders are
forthcoming for their products, they may have to close down altogether for a time. A London report of market conditions states that Canadian apples will meet with but a fair demand and low
prices for the first half of the season-better prices for the frrst half of the season-better
prices are then looked for.
Early
shipments of Ontario apples stand a much better chance in
I.iverpool, Giaspow, and the north of I.iverpool, Giasgow, and the north of England.
A considerable, factor in the shipnient apples to Great Britain will he the increased
freight rates coupled as it freight rates, coupled, as it is, with prospective
lower prices than ordinarily. There is also extra cower prices than ordinarily. There is also extra 5 per ton weight or measurement, according to the temperature required by the shippers. For
winter apples, cars consisting of one-third balance other varieties, two-thirds No. $1, \$ 2.00$
to $\$ 2.25$ per bbl. f. o. shipping point, should be
 The recent cold, wet spell has had its effect on Sooty Fungous, especially in in the lower and moro shaded parts of the trees where the fruit did not dry out so readily during the day. In some
orchards the Ink Spot is so bad as to considen ably lower the grade of the fruit. dued by the unfavorable weat ther. It shows itself in the form of small, red spots scattered over the apple, giving at first sight the appear-
ance of San Jose Scale.

## Showing Fruit at Fall Fairs.

 When showing fruit at fall fairs exhibitors should pay attention to the little details in orderto win coveted prizes.
There are many things which meet favor ins. the eyee of the judge, and athough the quality and appearance of the fruit way in winning the preference of the one making comparisons. Fanl varietence do not not show up as
well as the later kinds at fall fairs. The well as the later kand at fall fairs. Thay may
have better color, tut preference is piven to the
hard winter variety, especially if it it arived at hard winter variety, especially if it it is arrived at
any degree of maturity. There seems to be an any degree of maturity. There seems to be an
ephemeral or passing appearance about the early ephemeral or passing appearance about the exhibitors should bear in mind that to
fruit, and make their exhibit of varieties, especially those classes calling for several varieties, the very best
they should include as many as possible of the winter or late fali varieties.
Since the science of fruit growing has become so well known and so widely practiced, the idea
of exhibiting faulty specimens is an insult to the fair, and ind icates an outcropping of antiquated methods of culture. The quality of the fruit
crop of 1914 is good indeed, buit a commercial and an exhibition specimen are two different ohjects. The former should be good, but the lat-
ter must be faultless to be really ciassed in the ter must be faultless to be really ciassed in the
category of show stuff.
Growers know how hard it is to secure a cot of corr or specimen of fruit
that is near perfect, but it is easier in the lat-
ter class to ate
attan pertection and ter class to attain perfection, and scabs and worm holes should debar an entry from wining
any prize, even if it is the only one in the class.

## POULTRY.

## Poultry at the Ottawa Fair.

If numbers are any criterion by which to judge
the poultry exhibit at the Ottawa Fair was superior by far to that of any previous year. The entries were approximately double those of that year, and the quadity was equal to anything
the sem show, so we are safe in saying hat the exhibit of 1914 was the best ever put distinguisked by being the only one present, was sponsor for the whole tribe and certainly did his
duty. A fair proportion of this increase in aty. A fair proportion of this increase in num-
bers appeared in the utility classes, making the Barred Rocks, Wyandottes, Orpingtons and Dork-
ings a very good display indeed. Leghorns wete Ings a very good display indeed. Leghorns wete
strong too, and the Bantam classes and water owls were well filled. The turkey exhilit was wood in all classes, and there was some strong competi-
tion in Pekin ducks and Indian Runner ducks. On the whole the coops containing two, and some times three birds, where they were mostly enterarge increase had taken place
Chief
Barred Rocks: G. H. Taylor. winners wereSwitzer, St. Marys, and Hintonburg Poultry Yards, Ottawa. Wyandottes. white and golden:
G. Hignan, Sr., Ottawa. Burf Wyandottes : J.

Mason \& Sons, Ottawa. Partridge Wyandettes
G. Hignan, G. Hignan, Jr., Ottawa. Leghorns, white : T
S. Crouch, Billing's Bridge and Fred White, Cal
ment, Que. Brown Leghorn: ment, Que. Brown Leghorns: R. Blakely, Ottawa,
and G. H. A. Collins, Ottawa. Black Leghorns: A. H. Switzer. Silver Grey Dorkings: Mason \& Sons, Ottawa.
Five pairs of little fancy fowls called Silkies
were in the pens, and attractel were in the pens, and attracted considerable at
tention. J. tention. J. H. Warrington, and Point Fortune Poultry Yards, Point Fortune, Que., were two of
the largest exbibitors, having entries in

## FAKM BULLE'IIN.

War Time Topics from Britain. gathered in always makes war when she has enemy, France, is in the throes on her natural The call "to arms" throes of her harvest. France and England at a time when farm Belgium, collecting their harvests, and while the whole f agricultural Belgium was devastated by the Germ-Huns, the north of France, too, felt the shock and usage of the tramp of millions of feet and hoofs. But the harvest of Southern' France has been a good one. That of England, howover has been a wonderfully fine one. The vintage and there will be no 1914 champarne to war, wine lists when you good Canadians visit Europe English wheat will yield hence.
above average. Barley, however, will be or cent.
cent. below normal. Oats are the poorest of the
three cereals heing
cent. below normal. Oats are the poorest of the
three cereals, being about five per cent. below the
mean, though there
mean, though there about five per cent. below the
Beans will be a trifle over good crops in parts.
a poor yield, yet potatoes avorage, but peas are
average. The root crop will be about well over
Tour per
average. The root crop will be about four per per
cent. below average. Hops will be a heavy yield,
which is
cent. below average. Hops will be a heavy yield,
whis good considering that continental supplies are sure to be restricted in in contin
sheep, and prices for breeding stock have fee
"up" all round. At the Bord tural Society's ram sale, Border Union Agriculshearling Blackfaced ram, which was champion a
the Hawick Highland Show. Glenearn. A. J. Baifour, the politician bred at £205 for a ram from Deuchrie. politician, pai
realized up toll realized up to £39, and Oxford Downs realized realized $£ 100$, and a Bogside shearling at
fetched face fetched £110, and a Bogside shearling at Lanare "ordinary" Lincoln rams 50 guineas for a ram. paid at most sales.
actual facts own publications, I have been securing has been to England what help Hunter breeding tion, and $T$ find that in the Oakley hunt biliza(Oxfordshire) no fewer than 400 hunters were bought by the Government, in Surrey were
hunters; in Somersetshire hunters; in Somersetshire, $300 ;$ in Devonshire,
500 ; in Hampshire, 289 in North Warwickshire
300 ; in 300 ; in the Grafton country, North Warwickshire,
200 ; in in Beuthwest Wiltshire 200; in Southwest Wiltshire, 200 ; in South Staf-
fordshire, 200 ; in Ludlow, $200 \%$ in Old Bertshick Yordshire, 200; in Ludlow, 200 ; in Old Berkshire,
325; in Lord Rothschild's area, 200; in Sussex
200 . 200; and from all over the country batches of
100 to 150 huther the to 150 hunters have been collected. What ing able to swoop down upon ready-made foy be-
and five-year-olds and five-year-olds, or over. deponent
not.
not
easily
We must
done-a bred
dore light-legged farmer's mare, and there used on a The fog of, war is lifting. Whe have had a
glorious week's success driving tare the had a glorious week's success driving back the enemy,
Yet old England - that is speaking agriculturally
-is still herself safely gathered in, our country lads enlisted in
their thousands. We shall have one and their thousands. We shall have one and a half
million men ready for the firht soon. Agriculture has again played its valiant part in time of
stress. More acreage will he devoted to whmot growing than ever-let the "Dulls" of Chicago'
Pit note that !
I ondon, IEngland.
W. E. .J. Edwards, B. S. A., Representative of
 in the Michipan Aericultural Colloge at I.ansing.
He will con mence his new duties ahout October
first. The Veterinary Director General, Dr., F. Tor
rance, informs ${ }^{\text {. The Farmer's Advocate, }}$, Ministerial Order has been passed prohihiting, fo,
a further period of six months from Septemb, twenty-fourth, the importation into Canadal companying horses from the United or lingdom. "

A Good Shorthorn Sale
The dispersion sale held by A. G. Smillie, of cess; the twenty-nine head of choice Shorthorn cattle making a total of $\$ 4,958$, an average of \$171 each. This is a very satisfactory skowing,
considering that no small percentage of stock were young animals, including calves. C'apt. E. Robsoht, of London, wielded the hammer.
following is a list of the buyers with prices Carrie C. 2nd, W. R. Smillie, Brucefield... $\$ 135.00$ Wimple's Signet, J. F. Mitchell, Burling

 Vesey's Brand, Robt. McAllister, Blyth....
Fair Brand, J. J. Graham...................
Vesey's Choice Signet, J. J. Merner, Scottish Sample, Frank Fitzgerald, Hen Choice Signet, Wm. Pepper, Hensall........ Carrie of Treasure Valley 2nd, John Rad
cliffe, Exeter Royal Choice, Thos. Brock, Winchelsea.
Choice Gift, James Morris Choice Gift, James Morris, Munro.......
Scottish Brand, Wm. Ritchie, Teeswate Sample Carrie, Beattie Bros,' Varna...... Carrie 8th, John Chambers, Cromarty... Favorite Brand, J. J. Graham,
Carrie 10........... Choice Gersville.

Watt, Elo
Carrie 11th, Isaac Salkeld, Goderich....
Helen's Model, Duncanson \& Helen's Model, Duncanson \& Laidlaw.....
Vesey's Model, Murrell Bros.. Belton. Vesey,s Model, Murrell Bros., Belton:...
Carrie 6thoice Brand, J. J. Merner..... Oestreicker \& Sons, Cred Golden Edward, Peck \& Keys, Varna.... Roval George, Chas. Stewart, Gadshill....
Bandmaster, Frank Bean, Hensall......... Ringleader, Wm. Nethercott \& Son, St. Rare Marys.................................. 217.00

Our Scottish Letter. Events have moved rapidly since I last wrote. bloody battle fieme, not an armed camp, but a
century Great Britain the first time in a century Great Britain has sent an army across
the channel, and while I write tidings are being
borne are again proving conflict in which these arms thing to provent the nations, and doing somebeing placed under the heel of a military during the The losses incurred by Great Britain at 18,000 men-in itself an enormous price to pay for liberty, and no one is blinding himself
to the fact that this is but the after army is being enrolled, and a demand formy another half million of men has been endorsed by
Parliament. It becomes clearer and the great soldier becomes clearer and clearer that to take nothing for granted, that he does not calculate on any short and casy method of not
ing this war, and that ere all is ing this war, and that ere all is over and peace
again assured to the troubled nations moons shall wane, and many a nations, many
bereft of husband, brother, father and will be The readiness of the response to the call for
recruits is the most striking tribute to th
soidarity of the Sondarity of the British Dominion. Perlaps the
most amazing and awe-inspiring
army army of 80.000 men which is on the way or has
arrived from India.
al That arrived from India. That Great Britain has
always had clean hands in her dealings with sur
ject races will not ject races will not be recker dealings with maintained sub-
anyone, but her methods of Government always made for liberty, and not one of the races
which owns her sway has indice
disperiter disposition to take has indicated the slightest
emergency, and make it the occasion the present Next to India's splendid demonstration for rebellion. British are one that the Arrica that Boer has found himself
in possession of greater civil froet in possession of greater civil freedound himself
ever enjoved under a Dutch Republic, and his
attitude is such as to constitut Sol
 so far the war has eroked a seas. All arm of appornal
of the attitude of Great Britain. She has un-
sheathed the sword in her traditions
forder
 novel alliances. this crusade she find her ancient ememes. France in
her closest alle. Puer is
of future danger. But "sufficient unto the day is the evil thereof," and it is not a new thing one despotism by hurling Most High should shattor another. Meantime in quietness and confidence shall be abundance of Peace. and in the end there
The advance of science
striking illustration in the meetings received
British Association in British Association in Australia. The most the nificant feature of the meeting is its most sig-
Not many years have elapsed since been impossible to hold such a meeting, it have have been impossible to suggest that ing, it would
held. But the advance of Science the be held. But the advance of Science, the bridging steam vessels, have all contributed the speed of a meeting possible. It scarcely admits of doubt he had other international conditions prevoubt the opening address of the President, Profailed
William Bateson, F. R. S., would widespread controversy. It was a candid occasioned spoken analysis of theories of Heredity, based on
Darwin's doctrine of Darwin's doctrine of Selection and the Survival
of the Fittest from the point Mendelian facts. The the point of view of was not the less thorough because it was not in itself the main purpose of the address. But the subjection of Darwinian theory to Mendelian facts taken up by the apostles of Evolution. Sositions degree, and had they proceeded destructive to a school theologian, they proceeded from some old viewed with scant courtesy. But their utterance ben the President of the British Association is not ment of the Darwinian hypothesis an abandonadequate account of the origin of at all an taking this line Professor Bateson means no disparagement to Darwin. That painstaking in
vestigator places the world which can places the world under obligations tions opened up a vista in the facts of existencepreviously unexplored, and he facts of existence
responsibie for theories tion of facts which were not on hecessarily accumula-
ther in his theories. Nevertheless, if the President of
the British Association is anywher Premer the British Association is anywhere near being
right in his Mendelian facts adequate science of life has passed away as an its passing there must also go a great volume of theory and prepossession to which stock breeders hears. There are more fhings more than forty
yeack than tor than can be solved by any system, and so far we have not got much beyond the elementary pro-
position that you are more good animal by mating two likely to produce a by mating a good animal and one that is indit ferent. Mendelism accounts for many things
within its faith to it absolutely it is weil to pinning one's even its rules do not always apply. Professor Bateson mentions a not always apply. Professor hreaks down-that of color in the cross between color in this cross followed the simplest Ment of lian rule, the offispring of two first-cross muiattos would he on an average one black, two mulattos, We have an idea is notorious that it is not so. Mendel would get over this difficulty by boldiy asserting that one of the two original crosses
was not wholly black or wholly white argue that in ily black or wholly white. He wourt of the body there would he found evidence that of the body there would
absolute parent was not alsolutely white, or that the hlack parent was not absolutely black. And if he was a thorough
Mendelian apostle he would maintain this position arainst the world. We know of a case in
which waintain this posiWhich a white Shorthorn cow produced a red bull calf. The said bull calf became one of the
best known sires in Scotland. bull. Yown sires in Scotland. He was a red
bult could not make him anything elce nut seeine he was the offike hing of a a white cow,
on Mendelian principles it was an utter impossi hility that he crinciples it was an utter impossi-
to be some red. There was bound spite of your eyes, he him somewhere, and in Well, a diligent search was mat a red but a roand
of his ears, a inside
Mendel white hairs were found. produce a red calf Sind The white cow did not so! In like manner it may possiblv, Mendel said
that Proued untrue in the matter of color. Shservation leads
one to cold canahle of talking a deal of nonsense. and sometimes thev are hetter to be held in chock. What
fun we might have had out of this Rateson adtun we might have had out of this Rateson ad-
Cirouc. if oniv the Kaiser had hehaved himself,
and not had and not had the newsnaners filled with details
of this ahsurdd war! However, the adress will
lieno, and more mater Coneroses. This vear in have held thmir annual Increws. Subiects of vital interest to the com-
manity were discussed by them with much de-
 Immity were discussed hy them with much de-
tail. In particular they have advanced admir-
atlo theories regarding the sellin
demanding a fixed and not a presumptive stan
dard. Hitherto we have had a presumptiv standard, that is to say-if whole milk, as sold
to the public, was found to contain less son 3 per cent. butter fat, and 8.5 per cent. solids roved, that the milk , until the contrary was This threw the onus of proof that the milk. he couid establish that he sold accused, and cow gave it, even although it fell below the above standard, che accusation failed. For a
time administration went merrily forward, man of the county judges taking up the position the man who sold milk below it was guilty that statutory offence. This was the short and simple method of dealing with offenders, but it was no the law. The law is thrat there is no offence i how is innocence on the part of a mives it. But to establish a negative? The be sumcien authorities boldly took up the attitude that the evidence of members of a farmer's household could supreme court was fought out on this issue the finding was that evidence which would be accepted in an ordinary police case could not be refused in a case involving a statutory offence like milk
adulteration. The members of a man's household would be competent witnesses in an
ordinary case why not in this? The decision o ordinary case why not in this? The decision of
the court was favorable to this argument, and the end of the presumptive standard was in sight. The next case was a very bad one in
which admittedly very poor milk had been sold. which admittedly very poor milk had been sold.
The accused maintained that he sold milk as the cows gave it. He proved this by evidence fror members of his own household, and his convic-
tion in the lower court was quashed by a bench of seven judges in the suas quashed by a bench
outhe Court. The standard having maintain that the presumptive sest thing is to have a fixed standard. This has all a long appeared to us to be the wise course
but it has certain obvious disadvantages. Unless the standard is fixed high there will be plenty o "toning down," because it does not admit of doubt that a well-managed dairy of Ayrshire
cows in good keep and condition will yield milk of a higher quality than that fixed by the existing presumptive standard. However, there is
little reason to expect any legislation or queslittle reason to expect any legislation or ques-
tions of this kind for many a long day. Parliament will have more serious problems to solve and we will require to make the best of the milk
standard as it is until brighter days have standar
dawned.
The condition of Meat Inspection in this coun try is chaotic to a degree. There is no fixed or
uniformity standard, and every inspector is very much a law to himself. The Sanitary Congress passed resolutions in favor of a uniform stan-
dard, and therein they were wise towards such uniformity is a common system of training for the inspectors. Unless they are alike. Whether such uniform training may be responsible cannot at once be determined, but a be-
ginning should be made. The best inspector should be a fully-equipped veterinary surgeon,
with some training in miedicine. He need not he with some training in medicine. He need not be
a fully-equipped physician, but he should know something about the human body and the action
of poisons thereon. Much rood food the stroyed through ignorance, and much unwholesome food has been consumed, especially by the
tower orders. A uniform met by a uniformly trained body of inspectors would do much to remove existing anomalies. Tup breeders are making money, high prices being quite the order of the the day. one one great
breeder of Blackfaced rams last week sold 130 shearlins at an average of $£ 13$ 1s. each. This of the fact that the total rent of his farm is little more than $£ 400$. These 130 shearlings are别 most $£ 1,700$. The particular flock is that of
mbershicls in the Iammermoors, and the sheep Obershiels in the Lammermoors, and the sheep
bred on this farm have for long held a unique
place in the throughout Scotland. opinion of flock of are flock heasters
strong sheep, and brought out in natural condi-
tion tion. The farm has long been in the possession scotland yet.
Dairy Cattle at Vancouver Exhibition.
Aiter judging the dairy cattle and swine at
Vancouver, Fifth Exhibition, D. C. Flatt, of
Hammilton, Ont.. has written "'The Farmer's Ad-
vocate", thus." cat consideration it was the best exhibit of dairy
was a Holstein junior heifer calf, bred and champion Holstein bull was a two-year-old, same bull was made grand champion male the all the dairy breeds. My advice to our Eastern to exhibit in British Cho may intend at any time thinking that all the good Holstein cattle in tht Dominion are owned in Ontario." Logan \& large share of the prizes, winning many firsts other breeds, but the herd so numerous as the Thompsen, Sardis, Be B. C., made mp in in quality
what was lacking in numbers a credit to the breed. that has ever been brought out in British
Columbia. Columbia. Messrs. B, H. Bull out in British hand as usual with a strong bunch, but wey on
not have everything their own way
 The Guernseys also made a great showin the quality of the stock on of exhibitors and is becoming quite popular in British Columbia. bition went to Yule \& Bowes, Calgary, Alta., on
their Shorthorn hend


The Late Sir James Whitney Ontario's Premier Passes
Whitney, Premada mourns the loss of Sir James $P$ very suddenly at noon Friday last at his home in coronto. By his demise Ontario loses her lead good of her people. The late Sir James Whitney was born at Williamsburg, Dundas County wall Grammar School, and was called to the ba Counsel. In 1890 he was appointed a Queen's practice of law in Morrisburg, after which he en tered public life as a candidate for the Provincial
Legislature in 1886 . Legislature in 1886 He was defeated but not eiected and took his seat in the House. He never was beaten afterward, and his satisfied and each appeal to the country During the at each appeal to the country, During the late
days of the Mowat Ministry Sir James Whitney was made leader of the Conservative Party, and
fought a good fight during the time of the Hardy fought a good fight during the time of the Hardy
Ministry and the stormy times of the Ross Ministry, and was rewarded with the Premership
at the landslide of 1905 . Since that time up to at the landslide of 1905 . Since that time up to
his death he was in supreme command of the situation, and at each appeal to the Province
was returned with was returned with a very strong following.
Early last January he suffered a very serious ill-
ness in New York and even after his return ness in New York, and even after his return to
Toronto his life was almost despaired of but he Toronto his life was almost despaired of but he
rallied, and contrary to expectations appeared berare a great public meeting on June appeared be-
fore, giving
them the final address of the campaign and what them the final address of the campaign and what
proved to be his final public appearance. His indomitable energy caused him to take up
his work, and until early in August he worked
strain was too much and his health broke again but thoughe expected, his death was very sudden,
those in attention believing that he was gaining
rapidly. rapidly. A fair fighter, a real leader was gaining in manner and sometimes blunt, but alwaye
honest and straightforward honest and straightforward, generous and large poople. He was honored by the people and bis the King, being made a Knight Commander of the order of St. Michael and St. Georgander of little
over a year ago. Ontario and Canada mourns.

## The Apples and the Poor.

 Last wot Peter McArthur.my apples, but since writing the gossiping about Conditions being what I have changed my mind of a chance to give away what is left of my appie crop. It is quite evident that unless some apples will rot under the trees. A few brought out a number of suggestions of which the two following are the most interesting. The New mandsts that the situation is one "that New mands urgent action-attention is too poor a
word at this juncture-on the part of the Canword at this juncture-on the part of the Can-
adian $G$ Government. It may be said with perfect safety that the Kaiser's Government perfect
similar conditions would very quickly similar conditions would very quicknment save the
apples, but in our love of British freedom we apples, but in our love of British freedom we
have got it into our heads that government have got it into our heads that government
should have nothing to do with apples. The
country should be country should be given no rest until
gigantic, sinful waste of Natures provision gigantic, sinful waste of Nature's provision
this time of stress is stopped. The poor
have alm kave allways with you the Good Book says, and
God alone knows how the poor are to live through this time of war. Let the Government and adapt unusual methods, to an un-interference
tion and save the apples-and the poor." organ of the Glea on the part of the News, an editorial in the Star. Noting the fact that possibly a couple of million dollars worth of
apples may go to waste this season. the Star is "At the same time we are told that Belgium of Belgium are now asking if we can help them. Why not send some of those apples to Belgium. apples ourselves, but might we not help a sorelypressed people who have done so much and
sacrificed so much for our cause-the cause of sacrificed so much for our cause the cause of
humanity. Many Belgians have laid down their ives. Might we not help to give the survivore something to eat to sustain life?
"There is the food going to waste. There are
the people who need the food. To bring the two the people who need the food. To bring the two
together needs only a little initiative originality, a little courage, a little disregard of
precedent. Are our Governments, our businees men. our railway corporations lacking in these
qualities?
"'The farmers are doubtless willing to sell their fruit at a very moderate price. The Gov.
ernments of Canada and Ontario might make grants, not necessarily large, the railway make panies might reduce their -rates, all the middlemen. who understand the handling of fruit might
do it either freely or for a small reward. Nobody would lose a great deal, and the heroic Belgians In the hope of starting the ball rolling and getting someone in authority in action I hereby apples, mostly Baldwins. If other farmers will part with their apples either by making contribuhons or selling at a fair rate it should be possiwithin the next few weeks. If the Government would pay for the necessary labor involved, the scandalous waste of apples that seems almost inpossible to organize the people who are out of work in our cities, and send them to the fruit districts to pick and help to pack the apples
There is always a difficulty in sary pickers and packers to handle the apples in the city but if we could have the unemployed of around. Many of those who an advantage all out to the country to do this work might brough anderstanding of country conditions that would 1y. The waste of must be done and done quickly. Canada every year is a scandal at the blace in no year like this when food is scarce it is nothing short of a crime. I feel sure that many
of the farmers and fruit me that at the present time the question of saving the fruit at all is more important than get-
ting righ prices. I should like to see it arranged ting high prices. I should like to see it arranged
that everyone would get a fair price for his
apples, a price that would pay for the labor and
cost of production'; but if business conditions are rod. Yet these companies are using other poras much of the fruit as we can. The matter is these inferior rods which it condemns. entirely up to the Government. I can see no
way by which any individual attack the problem successfully. The case of
apples is different from that of any other food apples is different from that of any other food product. Our grain products and live stock are
handled through local dealers and there is always a market, so that there is no question about all food of that kind being properly conserved, but
the apple trade is entirely different, and the Gov-
ernment is justified in taking action.

## A Lightning-Rod Warning

I wish to warn the farmers of Ontario against inferior lightning rods. In our investigations
we have found that an iron-centred rod, that is, we have found that an iron-centred rod, that is,
one composed of a strip of copper twisted around an iron or steel centre, whether the centre is a
strip of wires or both, is a very short-lived strip of wires or both, is a very short-lived rod In many cases the iron is nearly all rusted away in from five to ten years, leaving only the
copper, which is too light either to wear well to carry off a flash of lightning without mellting The copper sheath of these rods weighs less than farmer who puts these irop-centred rods on his buildings is actually getting less present value for his money that if using an all-copper rod, to say nothing of the lack of durability. A I plain
galvanized iron cable is more durable than the iron-centred rod
In bulletin 220 on Lightning Rods, page 26,
appears a pkotograph of a piece of iron-centre appears a photograph of a piece of iron-centred
rod taken from the peak of a building after eight years of use. The iron a strip and wires were in several pieces, and more than half rusted
away. It is to the credit of all lightning rod companies in Ontario, except two, that they are fol-
lowing the teaching of Bulletin 220 , and do no supply iron-centred rods. Several months ago I personally informed one of the two companies building, and the other, even before Bulletin 220 was published, was notified what its teachings were advised not tol stock up with that kind they

Under these circumstances I think it only fair
to the farmers of the province to put them in possession of the facts. And it is not unfair to the companies, for they were notified publicly
through the bulletin and privately by letter, thus through the bulletin and privately by letter, thus
giving them ample time to provide a good rod. Indeed it has been a matter of surprise to me to learn through recent correspondence and personal reports that these rods were still being sold.
These companies can just as well supply rods, as specified and described in the bulletin. Perhaps it may not be amiss before concluding to say that our investigations have shown that
properly installed rods will prevent $\$ 999$ of loss properly installed rods will prevent $\$ 999$ of loss
out of every $\$ 1,000$ that would occur if the same buildings were not rodded. WM. H. DAY, Prof
Ont.

## Eggs by Weight

Editor "The Farmer's Adivocate"
It would seem more fair to sell eggs by weight than by count, since eggs vary a great deal in no premium paid for good eggs. The practice selling eggs by weight should also be com paratively easy. If a housewife steps into the meat shop and asks for two pounds of beef the
clerk slices off approximately two pounds. may be one pound and ten ounces or two pounds and four ounces, and the housekeeper pays for which she asked. Now the far two pounds for ask the clerk for one dozen eggs, for which she may pay thirty-five cents. Now, she may get a dozen eggs which weigh one pound, or they may that there is considerable difference in the actua value of these two dozens of egge, as far as the food value of the eggs is concerned. The stan-
dard weight for eggs is one pound and eiaht ounces to the dozen, and it really makes no dif ference to the storekeeper whether he sells large or small eggs, because he has bought them at so

Just compare the amount of work involved in that there is much difference. Possibly the aver age storekeeper could weigh the eggs almost a are some housekeepers who could weigh egre then quickly than they could count them. When storekeeper is skilful in handling three egen to
each hand, using both hands at once ing of eggs is both rapid and easy. the count the average storekeeper could certainly weigh eggs as rapidly as almost any other produce, and should buy hris eggs at so much per storekeeper cause it would be very difficult for him to buy by the dozen and sell by the pound. A case by eggs should weigh 45 pounds exclusive of the
case. The consumer's practice in purcter case. The consumer's practice in purchasing weighed in. This is not done with eggs. If a country producer ships ten cases of eggs to the per dozen. In the meantime, the eggs probably have evaporated 15 per cent. of their weight consequently the commission house is losing apThe loss in weight, of course, may be per dozen. way in which the producer handles his eggs or may be due to the methods of transportation. any rate there is which is not now ac
Although it seems only right that eggs should be sold by weight, and it also seems simple and come. The first of all is prejudice. dealers, and consumers are very changing the old for the new. Also there would be the second difficulty of establishing some basis
which wouid control the losi in weight which wouid control the losi in weight due to
evaporation during shipment. This is a big factor. As far as the producer is concerned it would be cheaper to produce large eggs. Large eggs weigh heavier, command a higher price, and fewer hens would be required on the farms than where small eggs are produced. Selling eggs by weight would tend to produce
large eggs, as it would pive the hen large egg a decided advantage over the hen a ing a small egr.
Macdonald College, Que.

Toronto, Montreal, Buffalo, and Other Leading Markets.

Toronto.




Toronto; shorts, \$27; Ontario bran, \$28,
in bags; shorts, $\$ 27$; middlings, $\$ 29$. in bags; shorts, \$27; middlings, \$2
COUNTRY PRODUCE.
 ids, 27 c . to 28 c .; separator dairy, 27 . Eggs.-New-laid eggs sold at 27e: to Cheese.-New, large, 15 c .; twins, 16 e .
Honey $\$ 2.50$ to $\$ 3$ per dozen sections.
Beans.-Hand -picked, bushel, $\$ 2.75$ to $\$ 3$; primes, $\$ 2.40$.
Potatoes. - New, per bag, 85 c., for car lots of Canadians, track, Toronto.
Poultry.-Turkeys per 1b., 16c. to 22 c , spring ducks, 111. to 13 c .; hengs, 10. to
12 c .; spring chickens, live weight, 12. to 13c.; squabs, per dozen, \$4.

wool, washed, fine, 27 thc.
Fruts and vegetables.
With few exceptions, fruits of all kinds
sold at lower values than at any time
this senson,
his season, and as the weather has beon
favorable, all kinds of vegetables are Offered in abll kinds of vegetables are
Apples, 10c. to at reasonable prices.

## Apples, loupes, apples,

herries, $\$ 6$
25 c per
 asket; plums, 75 c . to to . $\$ 1$ per basket;
watermelons, 25 c .
 anen; carrots, 20c. per basket, and
dor bag; celery, 20c.
auliflower


## THE ROYAL BANK OF CANADA

## Capltal Author ritec 

HEAD OFFICE: MONT Branches throughout every Provinc

| Accounts of Farmers |
| :---: |
| Invited |

Sale Notes Collected

Savings Department at All Branches

## basket; gherkins, 50 c . to $\$ 1$ \$er basket onions, Spanish, $\$ 3.25$ per crate; Cana-

 dian, $\$ 1$ per $75-\mathrm{lb}$. bag; onions, pickling, 60c. to 90 c. per basket; peppers, green,3oc. to 40 c . per basket; peppers, red 30c. to 40 c . per basket; peppers, red,
60 c . to 75 c . per basket; tomatoes, 10 c . 60 c. to 75 c . per basket; tomatoes, 10 c .
to 20 c . per basket; tomatoes, 10 c . to
20 c . per basket; turnips, 50 c . per bag; 20c. per basket; turnips,
vegetable mar. per bag
macket.

Montreal.



## Questions and Answers.

## Veterinary.

heo the cattle of this secion were affected with a disease resembling rheumatism. This was the case during a dry summer, such as we had this year. This year the same trouble is present, and in some cases have diéd.
Those alfected appear stiff and sore all Those allected appear stiff and sore all
around, and we cannot tell whether the trouble is in the feet or joint. Cases that are treated in, time, by the admin-
 trouble ?
ment indicates rheumatism. The disease must be due to local causes. If any more fatalities occur, it would be well
to notify the Domin on Veterinary Do-
partment, Ottawa, and an inspector partment, Ottawa, and an inspector will
be sent to investigate, and ascertain whether it be a conta
one due 炛e local causes.

Miscellaneous.

1. Yearling colt was castrated in June. Shortly after the operation he com-
menced to breathe heavily, as though ho menced to breathe heavily, as though ho
had a cold in his head; otherwise ho
ho seemed all right. He is fat, strong an
healthy, but still breathes heavily. healthy, but still breathes heavily.
2. Colt born in July, when walking, knuckled over on fore pasterns, and wore knuckled over on fore pasterns, and wore
the front of the joints until they became
raw. These sores healed, but an enraw. These sores healed, but an en-
largement remains on one joint, and he largement
goes lame.
3. Colt has scrotal hernia
hernia. At a year old a clem was put on. This reduced it, but it is still as as
arge as a hen's egg. He is now three years old.
4. Give treatment for cattle that bloat after eating millk and grain. Ans. -1 . This is a peculiar case. It
will be wise to have him examined by will be wise to have him examined by
your veterinarian, as the cause of the your veterinarian, as the cause of the
difficult breathing may be something that Can be removed by an operation. All
that I can suggest without an examina2. Rub well once daily with a liniment 2. Rub well once daily with a liniment
made of 4 drams each of iodine and
iodide of potassium, and 4 ounces each 3. a.cohol and glycerine.
5. Leave alone unless the hernia is increasing in size. It is probable it will disappear during his first or second year.
The only means of treatment is an operation by a veterinarian.
6. The only reasonably sate and sucessful mode of treatment is the proper application of another clam.
5 . Feed often, and a little at a time,
and add to the milk $\ddagger$ of itt bulk of and add to
lime water.

## Gosolp.

In our Western Fair report, Jas. Snell
was credited with winning first, second was credited with winning first, second
and third prizes in yearling Leicester and third prizes in yearling Letcester
rams, whereas it should have read 1 and , John Kelly; 8, Snell.
$\underset{\text { their }}{\text { W. E. Wright \& Son, of Glanworth, in }}$ their new advertigement, are oflering
Chester white swine of all ages, and some Chester White swine of an ages, and
fancy Dorset Horn sheep, rams and ewes,
Dore among which are sorite two-year-old rams
This herd of Ohesters were the champion This herd of Ohesters were the champion
herd at Toronto and London this year.

To horsemen.
Attention is directed to an advertisement in this issue giving instructions re
the next stallion inspection. See this advertisement and, write R.

Jno. Elder, of the firm of Jno. Elder cattle, Hensall, Ont., informs us that/ he has just returned from an extensive West-
ern trip, and found their stock looking ern trip, and found their stock looking
well. Their hord-header has made a well. Their hord - header has made a
grand impression on the herd, and lis as
There are grand as a two-year-old yet. There are
good as good as a two-year-old yet. There of the most of
forty-five females in the hes, most
which are in calf. It has been a good which are in calf. It has been a good
year on the farm, and in the herd.



Men at the Helm.
Albert. I, King of the Belgians, whose
armies have distinguished the for remarkable efficiency and cour-
age. King Albert has remained constantly at the tr
with his troops

Browsings Among the books.

## apanese courage

 Sakurai. In commenting on this book,
T. P.'s Weekly says: "The Japanese
Tider T. Pa.'s Weekly says: "The Japanese
idea of courage is very
different from that of the British. A Briton con mas-
ter fear. The Japanese probably ${ }^{\text {not kow know what it is to be atraid." }}$ "Human Buliets stable Co., London.
We were determined
Price, 5 s . net. 1 We were determined to deal a heavy
how on some vital part of the enemy,
however often and however otten and however badly we
might be repulsed or routed.
We were ready
even a sacrifice ort only a brole division onde even a whole division, for this important
object.
Accordingly, another object. Accordingly another great as
sault. was planned for 3 a 24th. For several days our company had been bivouacking in the ravine of Yangchia-kou, but now on the night of
the $23 \mathrm{r} d$ we were to the 23 rd we were to leave this place and
proceed to the rendezvous of Wuchiafang. Our own ceaptain gathered to ${ }^{\text {sen }}$-Farewell to you: I have no decided to to leav Please take this water-cup of battle-field.
Before these words from our captai
we, too, had made up our minds to die
this time. We exchanged the farewe cup of water from our water-botite, say-
ing : ide evening our water tastes like Our detachment reached the river at
the other side of /a mountain that looks the other side of a mountain that looks
like the back of an elephant. It was so
dark the woll all. We groped not see anything at Wuchia-fang, when in front of us we heard, a sound of human voices. I threw
myself on the ground and, looking myself on the ground and, looking up,
saw through the dark that a long line saw through the dark that a long line
of our wounded were laid down on the of our wounded were laid down on the
river beach. We marched on, sick at at heart, over such a tremendous number
of the wounded, it took us some time reach the end of this long line. Their
groaning, hard breathing, suffering, pain, groaning, hard breathing, suffering, pain,
their exposure to the night dew without heir exposure to the night dew without

In the meantime we were losing way, we could not find Wuchia-fang, but
suddenly came into the headquarters of the Ninth Division. General Oshima, th3 commander. was seen clad in his dark, winter unitorm, in spite of the season, a silk crepe obi tied tightly about his
waist. from which a long, Japanese waist. from which a long, Japanese
sword was hanging. At the sight of the sword was hanging. At the sight of the
gallant general we felt as it we were in a region of romance. When his division
occupied Panlung General Ohhime occupied Panlung, General Oshima is reported to have stood at the head of his
army in his dark unitorme making himarlf the only dark target for the enemy, shot, thus trying to inspire his men with courage and confidence. I asked the way of a
back inflifficeř, and our company turned back, in the proper direction. We could
not, however, find the right not, however, find the right place; we
asked again, and were told to go to the asked again, and were told to go to the
right; when we went to the right, we were told to go back to where we started; we were utterly at a loss where to
go. The time for our rendezvous was fixed at one oclock-It was now only a
little before that time. If we should to appear' on the spot in time, it would disgrace us, and we had to think not
only of our personal disgrace, but that only of our personal disgrace, but that
the prospective attack needed as many fighters as possible.
The delay in. our arrival might become a cause of defeat. The captain and all
of us were extremely anxious and wor-
oried ried. Fortunately, however, at this
juncture we came acros juncture we came across a man belonging
to the engineer corps, who minutely to the engineer corps, who minutely ex-
plained to us how to find Wuchia-fang,
toll telling us to go through the opening a
little further on, where then then engaged in in sapping. We went on as instructed, and soon found our
siege trenches we we m siege creme to an we went along these until we came to an opening, beyond which we
had to go through the fields exposed we the enem's view. We ran on, but pres-
ently a flash of search-light came


The Militarist Idea.
The Kaiser and his six sons. It is reported that four of these princes are in
waited, hown! was ordered, and we jective mountain, but no trace of the rible light to disappear. But the search- main body could be found. What a dis-
light would not disappear. communication with our rear was cut ofit was it? Was the expected assault postAt last we came to the place which we wion the captain a great deal of cogita-
imagined found none of our army there, but dark This was his datial for further orders Probebly were strewn on the ground. sion, and, of course. we formed conclu-
 center of our attack. ${ }^{\text {witched }}$ Iooking at the tunnel. Those corpses of the dead cornal to fes past one o'clock, We was a fow which we had apologized in horror to Were we too late? The anxiety vain. for the dead and once morore. We looked
captain was intense. Our disappointment was agonizing. Were we to miss our sault? The captain said, "I cannot expiate my fault even with suicide !n we failed to join this battle that if pany itsel? would be disgraced for ever. our unat compared with that disgrace What a scene of horrors No atretch or medicine-chest could be brought The dead and wounded were piled on upon another in nooks and corners, some groaning with pain, some crying for help, lopger. We hardly y found beace thing no without stepping on them. infernal tunnel of the dead and dying We groped to the right not to step on a dead comrade, only to kick a wounded one on the lert. Where we stepped, found ourselves walking over earth, we colored dead. "Don't step on the
corpses !' I shouted to my men; but at of one. "Pardon" was the on the chest I could offer the deas the only apology y insulted. Along this long narrow path, full of corpses, it was impossible not to step on our poor, silent com-
We were almost at the end of the brought us face to face mith wire have glements-when we stopped short for while. All at once the enemy's machineguns began at our left, shooting out ently we heard the noise dark. Prestachment; six of our guns were trying to In this narrow pass the same ravine. artillerymen were jumbled together to escape the fire of the Russian machine-
guns. We were now at the foot of the ob-

The The Militarist Idea
jective mountain, but no trace of the
main body could be found. What a dis-
appointment and pain for us! Where
was it ? WWa the expected assault post-
poned After a great deal of cogita-
tion the captain decided to go back to
Wuchia-fang and wait for further orders.
This was his deliberately- formed conclu-
sion, and, of course, we had to obey
him, though very reluctantly. Once
again we must go through that infernal
tunnel. Those corpses of the dead com-
rades on which we had stepped and to
which we had apologized in horror, had
to be trodden on once more. We looked
for the dead and wounded in the dark,
and found their condition still worse
artillery men had been before, because the place after us, had been through the same had been run over by the gun-carring Those who had been breathing faintly had breathed their last under the irom had piece who had already died were whels ing Shattered bones, torn flesh, flo swords a, were mingled with brotem more shocking than this What could be

## national prejudices.

From "Essays," by Oliver Goldmmith, $I_{n}$ one of these my hoveist, poet.] cidentally fell into a company of hall a dozen gentlemen, who were engaged in a warm dispute about some political affair, the decision of which, as they were equatthought proper to refer to me, they naturally drew me in for a share of the ersation.
Amongst a multiplicity of other topice, we took occasion to talk of the dififerent Europe; when one of the gentlemen, cocking his hat, and assuming such an air of Importance as if he had possessed all the person, declared, that nation in his own parcel of avaricious wretches; the French a set of flattering sycophants; that the Germans were drunken sots, and beastly gluttons; and the Spaniards proud, haughty, and surly tyrants; but that in
bravery, generosity, clemency every other virtue, the English excelled all the world.
This very learned and judicious remark probation by all the company-all apmean, but your all the company-all, 1 deavoring to keep his gravity as well as he could, and reclining his head upon his arm. continued for some time in a poshad been musing on something else, and did not seem to attend to the subject of conversation: hoping by this means to plaining himself, and therebsy depriving the gentleman of his imaginary happiness. But my pseudo-patriot had no mind to
let me escape so let me escape so, easily. Not satisfed
that his opinion should pass without consideration, he was determined to have it ratified by the suffrage of every one
in the company; for which purpose, adt dressing himself to me with an air of inexpressible confidence, he asked me if I
was not of the same way of thinking. As I am never forward in giving my
opinion, especially when I have reason to
believe that it will not be arreable, when I am obliged to give it, I always
hold it for a maxim to speak my real sentiments. I therefore told him that, for my own part, I should not have
venturad to talk in such a peremptory
strain Europe, and examined the manners of
these several nations with great care and accuracy : that perhaps a more impartial judge would not scruple to affirm, that trious, the French more temperate and patient of labor and fatigue, and the Spaniards more staid and sedate than the English; who, though undoubtedly brave and generous, were at the same
time rash, headstrong, and impetuous; ton apt to he elated with prosperity, and o despond in adversity. prosperity, an I could easily perceive that all the com-
pany began to regard me with a jealous eye before I had finished my answer, which I had no sooner done than the atriotic gentleman ohserved, with a con-
temptuous sneer, that he was greatly surprised how some people could have the
did not love, and to en.oy the protectio they were inveterate enemies. Finding that by this modest declaration of my
sentiments I had forfeited the opinion of my companions, and given them occasion to call my political prinit was in vain to argue with were so very full of themselves, I threw down my reckoning and retird to my
own lodgings, reflecting on the absurd own lodgings, reflecting on the absurd
and ridiculous nature of national prejuand ridiculous nature of national preju-
dice and prepossession. Among all the famous sayings of antiquity, there is none that does greater honor to the author, or affords greater
pleasure to the reader (at least if pleasure to the reader (at least if he be a person of a generous and benevolent
heart), than that of the philosopher who, heart), than that of the philosopher who,
being asked what countryman he was, replied that he was a "citizen of the world." How few are there to be found in modern times who can say the same,
or whose conduct is consistent with or whose conduct is consistent with such
a profession! We are now become so much Englishmen, Frenchmen, Dutchmen Spaniards, or Germans, that we are no longer citizens of the world; so much the natives of one particular spot, or memlonger cqnsider ourselves as the we no inhabitants of the globe, or the general that grand society which comprehends the whole human kind.
Did these prejudices prevail only among the meanest and lowest of the people,
perhaps they might be excused perhaps they might be excused, as they
have few, if any, opportunities of correcting themselves by reading, travelling or conversing with foreigners : but the misfortune is, that they infect the minds,
every title to this appellation but an ex- what it mot-But why need I suppose in my pinion prejudice, which, however the characteristicalt to be regatded as hor, let a man's birth be a gintleman; ever so large, yet if hed, or his fortune national and other prejudices, I should and vulgar mind him that he had a low in the character of a gentleman claim are who most apt to boast of national merit to depend on; than which, of th be sure twists around the sturdy slender vine other reason in the world but for no has mot strength sufficient to support Should it be alleged in defence of na and necessary growth is the natural our country, and that therefore the to mer cannot be destroyed without hurting the latter, I answer that this is a gross growth of delusion. That it is the allow; but that it is the natural and Supessary growth of it, I absolutely deny Superstition and enthusiasm, too, are the growth of religion; but who ever took it in his head 'to affrm that they are the ... Is it not very possible principle? love my own country without hating the natives of other countries? That I may exert the most heroic bravery, the most laws and liberty, without defending its the rest of the world as cowards all poltroons? Most certainly it is. and
were not, I must own I should prefer the citizen of the world ${ }_{4}$ to that of an Englishman, a Frenchman, a European, or 'to any other appellation whatever. 1

## School Children and

 Horticulture.begin gardening, whether is the time adults. Un'ess the soil is prepared or verize it winter frosts can help to pullow the manure that migh help to meltoo new and raw, it cannot otherwise be best results during the next spring. It is very necessary that the farm folk deners, and the good farmers, good gardeners, and the best way to make them
so is to start them early. Fer reason the following, early. For tha at the last convention of the Ontario Horticultural Association by Mrs. Potts, of Hamilton, should be of especial interMany this time of the yea
too much to purely acadowi schools run and so manual training and school ton, dening are being steadily advanced to more prominent places.
Vantages as to the latter, besides its adin scientific lines of study, deepening interest more beneficial form of it is a much calisthenics in a schoolroom. While the Swedish system of manual training and gymnastics have been deemed
worthy of study and adoption on this
continent, for some reason gardenin seems to have been too much overlooked People of all nations are recognizing knowledge is a means to is for man,education is a means to an end; true low-rnen and a wide-spread of Nature, best gained through observe thon and continued self-activity. Onserve-
who has for work has for years been connected with the advantages to be when writing of the advantages $t_{o}$ be derived by children from their gardens, says: "The knowlother thing-nothing can take its place. The more interests a child is brought choose a career suited to hable is he to inclination. The career suited to his ability and crowded if more of would be less what cultivating the soil really means."
to be not the children alone who need really taught ,"wat "cultivating the soil instructions, and need it badly, It the not easy, work to teach grown-ups, but may learn readily, and in turn they parents.
Someone has aptly said: "We can only teach people. what they want to usually However, children, if normal, usually seem to want to know something true, it would be wise to consider the result on the next generation if gardens were available for the children. It if not to be supposed for a moment that all: children will gravitate to gardening but, leaving out of the question the percentage of those who have no personal


The Haymakers.
bent, and also those who must be coaxe to try what they can do, there still re-
mains a goodly army, which, if trained
with an eye to the future, would justity even the most pessimistic in stating that the results would more than amply repay the efforts made to give the necessary training.
While many of Rousseau's theories were
radical, few men have exercised greater radical, few men have exercised greater
influence on modern education, and the two principles which characterized his ideas of education are (a) that nature is to be studied and followed, and (b) that education is an unbroken unity extending
trom early childhood to maturity. on result to be derived from the lessons taught in the garden would be a new interest taken in the study of science to the lasting benefit of the student, be
cause of the possible practical applicacause of the ascertained facts to applica in hand, thus creating a desire to follow the subjects even after school-days are ended. One mother, whose children are gardens flourish, remarked, "I can't ungardens flourish, remarked, "I can't un-
derstand why the children are so fascinated with the gardens. For years an Encyclopexdia has been in the house and rarely opened, but now it's in daily use; he children are constancly consulting it and insects and birds." This story obviously carries its own moral.
It is but a short step from gandening to another important department of edu-
cation, viz.: Domestic Science, for what irl, or boy either, is not all alive as $\mathrm{t}_{0}$ the fate of his garden stuff which has been laid on the home altar. To inrease an interest in tight preparabetter class of living, and this leads to the improved health of the community There are parents who, when approached regarding granting their children some space for gardening, declare that if this becomes general, professional gardeners estigation committees agree that " greater production of foodstuffs is im perative," and the high cost of living is being bemoaned on every side. Home
gardening - in'tensive
home gardening gardening - intensive home gardening -
rightly understood and conducted, may be an important factor in helping to solve this problem
John Locke believed that the right in-
struction in youth does not consist in cramming, but unfolding; that the child's mind should develop like the young tree, from the impulses of its own roots, and he said that a sound mind in a sound ody was a short but full description of tainment of this happy condition is the end of education. "A sound mind in sound body" is then the desired end to be striven after when considering the rant hat of dealing with the children whe more or less affected by the white plague The question of out-loor work for all persons predisposed to tuberculosis-even discharge from the Sanitarium as having been cured, or having the disease ar rested-can be met by the development of gardening. In relation to this matone who has given the least attention one who has given the least attention
the advances made in the modern treat ment of pulmonary tuberculosis can fail to recognize that the open-air treatment has proved of immense value to sufferers of consumption. Mr. Parsons, of Bramp-
ton Sanitarium, proves that even the success of the continental patterns of lowing the sufferers to work in the ga dens. By giving them this healthy employment they harden themselves, and in-
stead of being contirmed idlers, they leave the institution vigorous in muscle as well as healed of their lung trouble. All minor ailments, such as common
colds, bronchitis, sore throats, headcolds, bronchitis, sore throats, head-
aches, etc., are remediable by means of a principle of the open window.
hardly be doubted, therefore
those exercises which take the form out-door games, are in part replaced by
the more primitive and infinitely mor profitable one of gardening, the same ex cellent effects will result."
Mr. Parsons in his book, "Children. Mr. Parsons in his book, "Children's
Garden for Pleasure and Health," says "In the garden is found work in the open strength and activity, and producing
food for the body and delight for the neurologist says that exercise of the soul of mankind. . Those whose minds muscles is absolutely necessary to develo
demand problems, nature quietly sur- a healthy brain, "for all thought has a rounds with her marvels and mysteries, and with general steps leads their intelligence from understanding to understandence before the Creator. and they find that in return for knowledge and obedience they are given a measure of control over wonderful forces, and go forth success. The child comes naturally and gladly to this work, but the adult who has never known it is surrounded with
walls of habit and misconception that shut out beauties and delights that strive to reach him on every hand. To-day the child plays in the garden. To-morrow it works as an adult. The direction given o its play to-day will decide how it will act with its work to-morrow. The gar-
den teaches the child to think what he is doing, and the manner of doing it.
It teaches him observation of how others work, and leads to application of better methods to his own work; it teaches him
the value of orderliness and system for general economy and effectiveness, and the value of planning a series of actions to obtain a desired result. The garden
is an excellent place to learn the differ-


Cl:ild with Sea Gulls.

## From a paintink lis laura Muntz, A. R. C. A., exhibited al the Canadian cutimat

taking advantage of the (hild's desire for vor of and more that the lirst endeaage when the five senses are seek ns the live. The two chief aims of education pression and development, it can be led somality. Athough children are not perIn this garden work. which appeals to it plants of the silent influences of the green
as play.! Froebel said, "I can convert childrenc. will be felt later in lift, and manifect it tions, all that goes by the name of pla, Those who work among the slums in into instruments for my purpose, and
therefore transform play into work." Thardens then stand for stronger bodies. Children's languare tuberculosis is not the only discase to It cannot, then, be too frequently rebe considered when studying the different in child development that "the brain
problems connected with children's education and development, as nervous trou- should be trained in childhood, not only bles are rapidly increasing. Those in a velopment of the smaller musy the de-
position to know. State that the most considerably more poise and balance in stant requisition upon sensory and motor the gardens, and gam sulf-efliance there nerves, and by constant quickening of the
in a marked manner.
growth because it can understand the only does the garden serve to to tod not and train, but it supplies to eddunato degree, end that is useful in the highest an honorable and remunerative hecation Thoughtful people see danger in the rush to the cities, and try, if possible, to sirable results which intages and undoWork in the garden inevitably follow. else, at least acts as a corrective to thing all too prevalent contempt for work the the land. In this age there is most umstandards of value, to set up falso very erroneous'notions all because of dignity and value of city occupation and ways.
Phillips Brooks' wise words are no nough heeded to-day,-"Every occupa him who practices the enlarging life o that will not do this no occupatio right to occupy himself about:" has Abram Cowley, who wrote "God the
first garden made, and the first city Cain," said, "Behold the original and primitive nobility of all those great per sons who are too proud now, not only
to till the ground, but almost to We may but almost to trea of lilies and lion's rampant, and sprean eagles in fields d'or and d'argent, but plough in a field garable would be the a plough in a field arable wo
most noble and ancient arms.' Miss Williams, in her admirabl book, "Gardens and Their Meanings" says, "There is indeed need for small be ginnings, for it is these that convince public. Even a tiny plot, hearth-rug
size, can be made to do duty ar den, inasmuch as in these days of intensive farming the size of the farm is the very least of its assets. Says an expert pocket, who heartily encourages the square the capacity for plant growth of one then, may be dispensed with, furge fields cannot be said of large enthusiasms." Par more - they taught ant these things-and are established because it is expected that these will in turn develop into "laboratories for the production of health, pleas ar, and education," and all this means home expenses and considerably reduced It is frankly stated that city life for children has come to be sadly empty of
the real wholesome experiences such as trained the powers and developed the children of earlier generations. experience. Children cannot be made to women by the study of bookegntion if they are to do anything as adults, "ley must do something as children. One authority good and spontaneous, are by nature activity. Their play must be directed, and their work made attractive. Their education should come to them through
close contact with nature, the using of the hands and directed play. the The child's garden, then, is really the
training-ground helping to prepare that training-ground helping to prepare thot
child to better play his part in the larger life of the play his part in the
writes writes (in Gardens and Their Meanings), "The sum total of experience shows that
it is the trained man, whether working on a pigantic scale or on a small one, who, all other things being equal from an economic standpoint, wins out."
Mr. J. H. Smith. Inspector of Schools Mr. J. H. Smith, Inspector of Schools
for Wentworth, in an address when urg ing the establishment of school gardens
throughout the county, stated that while much had been said about the teaching of the three ${ }^{n}$ 's, he had been thinking of the three H's, and as he considered
the school garden in relation to the che school garden in relation to the work; the Head to plan and devise; the Heart to govern and control."
Some parents hesitate, fearing that gardening may prove to be such a fascination that other studies will suffer, but are groundless, and experience proved that instead of impeding the progress of stucy, the garden has been the means of the purguit in and unexpected desires ion. Prof. Benedict, of the University of

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fisiting a certain region of country ossessed all the qualifications required yor human habitation and prosperity, dreds of miles, only desolation and decay
could be seen, though there were millions of acres of fertile soil, warmed by the sun and watered by the rains. This
place had once been the chosen home of an army of families, but one by one they mained until actual starvation drove them to abandon their farms and homes, and other regions to begin life anew. cause of this
nergy, enthusiasm due to any lack of of the owners, but lack of knowledge he specific knowledge of what kind cul
crops should be planted, and how to cul tivate them when plan'ted. The necessity for more general and
more intelligent use of the land is being hat where abandoned farms were supposed to prove the worthlessness of the
soil, in reality what was needed was a different or more intensive cultivation,io quote Miss Williams again,-"' 'Space
to let, with power.' This sign adverises the resources of a large machine could better describe a garden? The space is self-evident. The power no man
has ever fully measured. All it needs is Then who are skilliul enough to guide it. fact. We realize that its importance
does not depend upon its size. Small plots may have large mean.ngs. They a nation, but rightly understood, they griculture.
Mr. Laintis, Instructor in School Gar-
dening, Cincinnati, in a paper read bedening, Cincinnati, in a paper read be-
fore the School Garden Association of dens must be established if the best results from school gardens are to be
secured. His opinion is that the home garden is necessary to allow the child to school garden is operated by set plans. The home garden, by giving greater free-
dom, creates a deeper interest, and is less likely to lose its attraction. Instates as his opinion that the home gar-
dens must be encouraged. dens must be encouraged. A prominent
European educationalist roper school garden may, must, and is are the happiest. The eye and heart of
the child shall open here to the beauty nature from the lowest steps of learning, and at the tenderest age; 'the atten-
tion will at first be powerfully excited and mony, the institution of beauty, must not the life-long effects of the pleasures enjoyed in the beauty of creation and in
the improvement gained in the school arden express themselves in the charissue from the schools, a race which will
not look upon the earth as a vale of tears, but of a beloved, habitable home,
in which a man of clear mind and joyhis neighbor's happiness
> human nature. Habit is our primal indamental law-habit an imitation; wo. They are the source of all workng, all apprenticeship, of all practice,
nd all the learning in the world." It is the privilege of Horticultural Soieties to embrace the opportunity given
o-day to encourage in children the rowth of such habits, which, when imi-
ated, lead to the betterment of life for Wordsworth, the high priest of nature Come forth into the light of things,
Let Nature be your teacher.
She has a world of ready wealth, Our minds and hearts to bless-
Spontaneous wisdom breathed by health,

##  Rash judgments, nor the sneers of selfish <br> greetings where no kindness is, nor all <br> The dreary intercourse of daily life, Shall e'er prevail against us,  <br> Hope's Quiet Hour.

I stand aside to-day, giving place to one who is still pouring sout his thoughts
in print, week after week, although he celebrated his eighty-ninth birthday last March. He says that his health is
simply perfect, and that he is the oldest Sailor's Missionary alive. He often sends me articles which he has written, and I am amazed at the amount of literary
work he accomplishes.
HOPE.

## The Grindstone

Under the sheds of the large graving docks in Liverpool you will find large employed constantly in scraping the crop of marine vegetation from the bottom of ships,
service
Thousands of men are employed in this calling. Periodically these ships must sea is so persistent, and that lifewhether it be barnacles or grass-fastens upon any substance within reach and anchorage. Oh the wonder of the sea Shall I be believed when I say that I the middle of the ocean, green grass in derelict yes, rean, on the deck of a derelict? Yes, the ocean grows green was regularly washed by the waves, and we saw grass as green as a meadow. a paint which will resist the can invent sea life, grass or shell-fish. In the meantime, men must scrape and clean and Why do we need a grindstone? Because our tools lose their edge and must be If you could have looked into the workshop of Creation when things were
being fashioned you could not have seen a grindstone, for all God's tools are selltrue, yet. A rat can bore a hole through could examine the teeth of that rat after the operation you would find them a lit-
tle sharper than when he began. AII God's tools are self-sharpening, but the
working man needs a grindstone all the
days of his life You will find by searching more than
one kind of grindstone. In the moral workshop you will find several varieties.
I know a man-we call him Tom-he the way of mental furniture. He has divided and sorted things up and put
them in several compartments. He said
one day: "Things pleasant I accept with a thankful heart, things adverse I
accept as discipline-for instance, there's
Billy (a crabbed, morose, ill-assorted Billy (a crabbed, morose, ill-assorted
man) it is my lot to work with that
man longer than I like, but I have to man longer than I like, but I have to
do o it, till there is a change of wind.
look upon that man as hard as a grind stone, but I bring my tools to that man
and get them sharpened, and by way of "Nature never did betray
The heart that loved her: 'tis her privi- $\begin{aligned} & \text { lege, } \\ & \text { and get them sharpened, and by way of } \\ & \text { trial and discipline that man has been an }\end{aligned}$
Through all the years of this our life ultimate blessing to me."
is a severe trial at times, a sort of mor-
al barometer by which I ascertain the
current of my own feelings, and though panful the discipline has not been with-
out profit." This is another the grindstone doctrine. it ground him down to the brone. His
spirit had to march in light marching order, but there came a turn in the tide,

## The toil is pleasant, the reward is sure, Blessed are those who to the end endure How full their joy, how deep their rest shall be

 O, LORD, with Thee."H. T. MILLER, Beamsville, Ont. that land.
In the fifteenth of Luke we read of the
young man who went inte and soon spent his money, and began to mighty famine in that land. That land and that young man came into conjunc-
Tha't land is still waiting to welcome ous i provid he meeting-place is still to be found. Men learn in suffering what they teach in
song : "Before I was afflicted I went There is always a, famine in ..t There is always a, famine in "that
Go to the Seven Dials in London, go to the East River in New York,
and you will find the famine-stricken down and out, and the chances of recovery are as one to a thousand. Universpreachers, drabs and drug-fiends, walking lepers, vermin-eaten, muddy wrains, Lurching bravos from the ditches dank.' Who shall measure the acres of that tell of the seed sown in Sunday Schools? Who shall count the broken hearts of
parents and relatives? Will this dead sea dry up and give us a chance to divide and sort the contents?
All this human drift-wood started from ng, the shaping when the wax was soft. Many of these were more sinned against
than sinning. A man once said to the writer, "I was brought up in the tear of God and the broomstick, and the stick
$\qquad$ A poor girl, driven to desperate ways,
dropped her shawl and bonnet out of the dropped her shawl and bonnet out of the
window, then she left the house uncovand went away to "that land," where
famine and a thaw amine and a living death awaited her. Who shall apportion the blame? How soon should we begin the traino a congregation in Scotland preached o dine with the elder, a plain man with a large family. The beautiful order of
this family came as a delightful shock. I said to the man, "How do you manage
this?" He said : "I begin in the cradle. He said: "I begin in the he is already under authority. The bat-
tle is won before the end of the first



 breach, the Restorer of paths to dwell
in." in. Jerusalem is being rebuilt with
small bricks-nay; the stones are invisiThis is the Temple that is rising, the side without hands. Broken-hearted
mothers, God is in that land and hunting up your boy. The mightiest forces
are the unseen ones. We live on all lifelevels by faith, by assent to realities
which are not there for our eyes. We are permitted to see the larger Spirit
which our own human spirits call for, that we see the eternal significance re conquest of His Spirit through the ages

So upward still, from hope to hope,
From faith to faith, the soul ascends And who hath scaled the eternal cope
Where that salt

The Ingle Nook.




Dear Ingle Nook Friends,--If you were necessary to it the constant know how
notes is. Meming of notes is. Memories are fickle, and while
ideas may form themely ideas may form themselves stably enough,
details are very likely journalist knows this, hence his Every his notebooks, his desk, are likely to be come crammed with all sorts of jottings, heterogeneous enough, yet presenting some For the last half-hour, then, $i$ I have of scribblings "on my own desk of a suggestion for something about which to write you, but for the first time I find but little choice; every item
is about the war. And so I do hesitate about bringing up the subject again, even in this peaceful column, for,
I take it, the burden of my desk I take it, the burden of my desk, with
its innocent brown cover, is but indicative of the minds of the people everygoes one hears only war, war. For once the whole country seems to be stirred to its inmost depths, and, if one observes coming to the conclusion that never in fore, perhaps, in the history of the world, was there war-talk such as this. Exultation, parhaps, over victory, one
hears, but everywhere horror, hot everywhere expressions of suffering entailed!-Aghastness at the awful waste of money that might be put to so much better use !-Hatred of the has hurled this it, or another-tha midst of enlightened, progressive Europe I -Fury that brilliant lives must go on being snuffed out because of the inherence long since have an Idea that should cobwebs of the Medieval Ageat to the What has become of the "glory" of bering with ghastly horror, the grassy swards of Wurope's fair fields 1-Hurled hoped, will soon follow in one in to be ble, crumbling mass, the cannons and bombs, the repeating rifles, and the shrapnel, the great Dreadnoughts, and the hateful contrivances by which man and mits murder upon the body of his

Yes, in spite of the terrible on-going in Europe-even as I write is in progress, so they say, the worst and flercest bat-
tie of the war so far that, the fact remains that mankind al the mass, in this day, has neither love world moved And when the story of the Great Ccnflict of the future, the great credit will bit given to him who, could he have man-
aged it, would have held the great disgrace will be put upon him who whene of it. have held it, would have remembered, most of all, for his striv ings to mediate; and the statesmen who shall succeed in putting the affairs of
the world on a basis that will tolerater no more war, will count for more than minded-who will have grained and high chor the Universal Idea of things is to-day the world-mind clear; and althoug mitted, all too much obsessed by com torcialism, there is reason to hope that
there may be a new vision ter, saner basis. It is nut dreaming mad dream to imagine that the day may honor than to be good will be greater powers of thought of more esteery than
to rule over many men; a day when to No in a huge and fine house will mean
nothing at all. because other things will

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## THE FARMER'S ADVOCATE.

open to overyone, and when the greatest
diearace of all will be to exist and wax
 It is not far-tetched to cenclude that even this war mas hasten such a maw
Concoption of the Things That Are Worth conception or the Things That Are Worth
Whie. Through the very horror of it people have been shaken out of their own selfishness and smugness.
versal conscience has been aroused, and
people ask "Why ? Why?" and "Who is people ask "Why? Why?" and "Who is
to blame ?" Red Cross work in every part of the civilized world makes still
warmer the warm hearts engaged in it and teaches the joy of doing for Red Cross work, all the more glorious because through it an enemy may be
benefited as well as a friend,-And yet not an enemy, for when a man is wounding mortal, a brother in need of kindly touch and kindly word. Indeed, even be loire he received that wound, was he not brother to us,-a brother separated from
us because of somebody's mistake? Just here will you be glad if I quot to you a paragraph or two from the words of Rev. Dr. Frederick Lynch, re cently returned from the very scene o war? After describing a few of the horrors that he saw, the transformation fiet, he says : "Perhaps there of con to be a wholly new presentation go Christianity before these, things can be stopped. Perhaps we have got really to teach what Christ Himself taught, name other, all men of good will for each other, must transcend race, nationality, every other bond. We have never dared on Christ's lips. He even continually and said it must transcend family ties. t twould be as impossible for one Christian to kill another, did we really beliete in Christ and accept His Gospel, as fitt
And again
"One thing even the blind" can see lies at the root of all this calamity of the the one truth on which neglect to preach of justice or peace can any lasting order hat nations must be amenable namely, same Christian ethics that govern the relationships
double standard of ethics in the kingdom of God. Right must be right and wrong
be wrong throughout the whole universe of men. If it is wrong for men to steal it is just as criminal for big nations to seize little ones. If it is wrong for men kill murder, it is wrong for nations to in any nation. If it is un-Christian for men to settle their disputes with their fiste, it is wrong for nations to adjus their quarrels by . iron fists on sea land If it is Christian for a man to $i_{\text {in the sweet }}$ Christian spirit of forebearance, charity, even lorgiveness, what else can be Christian for nations? We have not believed this, we have not preached
it in our pulpits, or taught it in schools. We are going to learn it ous in this year of agony. Every pulpit should reiterate it every week." JUNIA.

Preparing for Next Year's Garden.
that if you are to have a flower-garde
next year, you must begin narden of profit ing NOW? Just think for a moment :
Point Number One.-There is Point Number One.-There is your plot,
filled, as soon as frost has come, with brown stalks and blackened trailing vines. Among those pitifully-drooping leaves thorough examination, scores of cocoons tiny grayish bundles-very inconspicuous,
as old Nature intended they should be Open one very careflully, and you will find
inside a yet smaller bundle, a sort mummified thing to all appearance, yet
from the care with you may care with which it is encased,
you mether sure that it contains you may be rather sure that it contains
some germ of life; Nature seldom takes such pains for nothing. , You have, in-
deed, uncovered deed, uncovered a "pupa," and had you
not interrupted its course of development not interrupted its course of development
by your prying, wonderful things would by your prying, wonderful things would
have occurred to it before spring,-wings would have taken shape, eyes appeared,
legs, all gradually-so that finally, upon
full-grown moth or butterfly of some sort people"; you associate flowers with re would be all ready to emerge. Now, finement and kind harts, and, ninsty-
butterfies and moths are very interest- nine times out of one hundred you will
 ful, but as a good gardener you are of fine character in those who grow themy the main object of the life things - that they also halp to promote fineness of insects, in Nature's great scheme of re- life. . Have you been too busy to try
producing, is to try to morest in producing, is to try to produce eggs;
that eggs of insects invariably hatch thrst of all into maggots or caterpillars; and that caterpillars, with caterpillars; cious appetites, are the foremost enemies of your plants
Now, what does all this suggest
you? Is it not that the you? Is it not that the part of good
common sense is to cut down all those sheltering stalks and vines, rake them up and burn them, so that no cocoons may be left, in your garden at all events, to hatch out misfortune for you next year ? a love those little white butterflies !' mer. She was much surprised the sumthat those very same innocent-looking little butterflies hovering over her cabbage plants would be responsible for the green worms soon to give her trouble enough by their ravages on the forming
cabbage-heads. Point Number
have your garden thoroughly all possible, and fertilized this fall. In the spring the men will have less time, and the Work is likely to be done hurriedly and nefficiently. Besides, the soil will pro-
duce much better next year if thus posed to the mellowing influences of winter. Make it your aim to have the greatest possible production, whether in vegetables: or flowers, from every square
yard of land. Your own yard of land. Your own garden may
surprise you-if you give it Point Number Three- a chance. you can save time and have a fine start next spring by planting out a number of
things this fall. Although tender shrub things this fall. Although tender shrubs


How to Set a Table
ing, all the hardier varieties may be
safely set during October. And fust ere,-farm fork who wish to have beau-
iful homes with tiful homes with as little labor as peassi-
ble, will $d_{0}$ well to pin their faill shrubs, and perennial plants, rather than to annuals. First make your plan of when your dream has been all realized,have it all drawn out on paper, and keep roots as you can afford them; a the varieties of lilac this year, and, a fern written to "'The Farmond letter I have clematis of the lovely wild clematis, or what that means, and everybody knows blossoms over your veranda; a forsythia how to make mushroom catsup, to know and smoke tree next year; with a be- "The Farmer's recipe, have resorted to
sprinkling of perennial herbacaous plants fails. all the way along: --peremnial larkspur fails. I have received a great many
with its tall spikes of brilliant blue. perennial phlox in all shades; some of say, have been a very poor helpery so
the new sunflowers; fall anemones and help "Vanity" ane new sunflowers; fall anemones in pink
and try and help " "ea-kettle trouble. "Vanty" out with her
white and crite, peonies in pink and choice. and crimson; hundreds more for in soft water until thoy and boil thel Have you ever noticed how flowers Let them stand for a while in the ket-
about a home when your within it? Driving to label the fork will find it no trouble to scrape out you
 walls vines run riot, and before whose and aThe Farmier's Advocate", the best
door flowers grow as though tended hy of success, I remain as ever.
loving hands. Involuntarily you thin's
of the people

# Mushroom Catsup. 

 mushrooms allow $\ddagger \mathrm{lb}$. 2 gallons of quart of the juice a small salt to every cayenne, a teaspoonful allspice, 1 of ger, 2 blades powdered mace. Lay themushrooms in layers, with an earthen or granite pan stand six hours, then break between. Let the hand. Keep in a cold to pieces with days, mashing occasionally. Place for three the juice, add spices as above, put out covered jar and boil three hours in a
saucepan of boiling water done, pour the juice into. When this is let simmer gently for hale a stewpan and stand in a cold place over night tot tle, then pour off and strain. Bring to

CLEANing Lime from Kettles 27th, "Vanity" asked issue of August 27th, "Vanity" asked regarding the the
cleaning of lime from kettles. cleaning of lime from kettles. A simple
and good plan is to boil soft water in the kettle at regular intervals. We use our kettle to help warm the soft water trom the cistern on wash days, and find the week's accumulation of lime chips of its own accord, and can be shaker
out. Since "'Vanity's" out.
case," Since "Vanity's"' kettle is a "hard ment several times in succession treat. beginning, and then continue regularly,
Peterboro Co., Ont.

ANOTHER HINT FOR " VANITY " Dear Junia,-If ""VALLS
drop a small marble int would only I do not think she would have tea-kettle, rouble with lime forming. I always keep one in mine, and while little flakes.
sometimes form, around, keeps them marble, rolling kettle, and they are very easily ringed Now, I am going to ask if someone will please tell me how to make the
small cheese balls served with do not think I have ever seen the ? If printed in "The Farmer's Advocate." 1 wonder what we would do without ""The Advocate"? I think everyone will admit it is a pretty constant friend coming to visit us every week, rain or shine, and
with such a variety of news. think it is more reliable than some of our human friends, for in this age of few minutes' chat frequently think that a a sufficient visit. With best wishes for the Ingle Nook. BUSYBODY.
Oxford Co. a am delighted to be able to give you 1. Mix together $1 \frac{1}{1}$ cups grated cheese 1 tablespoonful flour, if teaspoon salt, dash of cayenne, and moisten with the
yolks of 3 eggs beaten thoroughly. Shape Yolks of 3 eggs beaten thoroughly. Shape
into small balls, roll in dry cracker dust,
fry in deep dressed lettuce fat, drain, and serve with ${ }^{2}$. Rub cream cheese to a paste with pepper, if liked liksing, add a dash of red pepper, if liked, and form into balls.

[^0] of prizes. The age limit begins at six-
teen. There is and

Now is the Time to Look Around for that New Range


1738
IfYou Want toEconomize Use "Diamond Dyes"
 sarment just as satisfying as a new one


Diamona Dyes
Simply dissolve child can use the upe and boil
" Rece
 and dyed in bright solid new colors, they are
just as stylish and fashionable as any new
clothes I could have bought II send you my pholograi
 Truth about Dyes for Homi Hon Use









THE FARMER'S ADVOCATE.
 sheilt to hold spools, scissors, etc. $\begin{aligned} & \text { twelve years, why the rots may } \\ & \text { divided. It very large blossoms are do }\end{aligned}$ CLOTHESPIN HOLDER.
Use a grape-basket instead of a bag,
fix a wire hook to the handle, and slip
the basket along the line ahead of you the basket along the line ahead of you
as you put on the clothes. This will
save stoon
$\qquad$ If
pipe
no
no

LEAKING STOVEPIPES steam condensing as it reaches the colder
part part of the pipes above that causes the
trouble. The following is said to be a
remedy. Cet remedy. Get the tinsmith to cut a hole
in a length of pipe, with a sliding piece
to close it when to close it when wished, and put this
pipe above the damper-length. When the damper is closed, open the slide, and the
current of air from the room will prevent the steam from tettling.

FINISH FOR POOR FLOORS

writer in Woman's Home Companion,
Use odorless roofing as a border to cover old, rough floors, which so often spoil
the effect of the center rug. Tack it
dow down well, then put on a coat of shellac,
and finally a coat of floor paint. Let
dry, then put

## A Garden Scrap Bag.

rhubarb in fall.
Mulch rhubarb with strawy manare be-
fore winter sets in. The stalks will grow
much more guickly much more quickly next springs, and grow
be much more tender in conseguence

Be drying potatoes. hours before putting them in the a cellar.
This may help to prevent rot

sired, all the buds should be pinched or
save those on the main stems.
FOR WINTER CHEER. Geraniums, impatiens, and begonias, are
common enough window-plants during win ter, but, for a pleasing variety, did you
ever think of trying a wild-flower windowever think of 'trying a wild-flower window-
box? A writer in Suburban Life says that she always makes a trip or two to
the woods in October, bringing home all
sorts of green things-ferns, hepaticas, sorts of green things-ferns, hepaticas,
violets, Jack-in-the-pulpit, and even oxviolets, Jack-in-the-pulpit, and even ox
eye daisies from the roadside. A quan
tity of native soil is also brought home tity of native soil is also brought home
The noxt step is to plant the roots out in boxes, which are then placed in
shadded corner of the yard, watered from
time to time and left until the groun has frozen. After being frozen for about two weeks the boxes are removed to the
cellar to thaw out slowly in a dark
place, then the dead teavion and the plants brought gradually into greater light and warmth. Before long
they will begin to put forth they will begin to put forth new shoots,
and will present a pretty appearance all
 roots are planted under trees in the
yard. . The same woman also keeps
parsley growing in pots during parsley growing in pots during the cold
weather, finding it useful as well
beautiful; and she beautiful; and she has found that tiny
hemlock and pine trees, transplanted in
fall, make fine substitute for the fall, make a fine substitute for the ever-
present ferns and palms found growing
in jardinieres.

## BULBS FOR FALL PLANTING. Flower-

 Flower-lovers who have never triedplanting bulbs for flowering in early
spring, and in the house during spring, and in the house during winter
have no idea. what a pleasure is in stor
for them. Lilies, narcissus, hyacinths, for them. Lilies, narcissus, hyacinths,
tulips, jonquils, scillas, crocuses, snow-
drops, anemones-the choice is large, and
the harvest of delicate beautiful the harvest of delicate, choice is is large, and
perfumed fowers,
while for the most part, is well worth while.
For garden planting, set the bulbs out
at any time from For garden planting, set the bulbs
at any time from the middle o
October till the middle of Noven-
ber, dependin ber, depending on the weather. Give the
beds a sunny position, if possible, selecting a well-drained situation. Any good
garden soil, well pulverized to

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every way

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 goitre sure cure

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and prices.
NTARIO PRRTILIZRRS, LIMITBD

OCTOBER 1, 1914

## Seasonable Cookery

 Savory Minced Meat.-Put a tablespoon-ful of beef or bacon dripping in a frying pan and in it fry ons onion, thinly
sliced or veal, which has been put through the meat-chopper. Turn with a fork untii
cooked, season, and serve very hot cupful of stewed and serve very hot. A if liked. Preserve.-Wipe one pound sma tomatoes (yellow pear tomatoes ar best), cover with boiling water, then take off the skins. Sprinkle with one pound
granulated sugar, cover, and let stand over night. In the morning drain of Add tomatoes, two ounce thin. Cook slowly. If preferred instead
of the lemons, two oranges the meat-grinder may be used. Grape Snow Pudding.-Soak 2 table spoons gelatine in enough water to cover
it. Let soak for an hour, then add to it. a quart of heated grape juice. Stir solved, add juice of one lemon, and sugar oo taste. Take from the fire, and as it whites of 4 eggs. Beat until stiffened to stififen, then turn into a wet mould
and set in a cold place. When firm, and set in a cold place. When, firm,
serve with whipped cream. serve with whipped cream.
Stuffed Apples.-Core the apples and steam them until tender, then boil them
for a few minutes in a syrup made of for a few minutes in a syrup made of
white sugar. Fill with preserved cherries and nuts, chopped fine; boil the syrup a serve cold with whipped cream.
Celery Cheese Balls.-Rub cream cheese
to a paste with a little cream, mix with minced celery, make into balls, and chill
before serving

## The Windrow.

Prof. H. L. Hutt, of the Ontario Agri-
cultural judge in an interesting back-yard garden ompetition held this year, by generosity
of the Dovercourt Land, Building and Savings Company, in the city of To $\$ 250$. A suggestion is that prizes for back-yard gardens be given in connection
with Agricultural Fairs, names of prize
winners to prize gardens to be shown at the Fairs.

While Red Cross work has been going On in almost every civilized country,
Women's Emergency Corps for the assistWomen's Emergency Corps for the assist-
ance of girls and women thrown out of
employment and employment, and therefore out of a liv-
in 5 , has been formed in England. Headquarters were established in London, maunemployed given a chance to come and
work on Red Cross articles for pay. The
pay,-10s. a week for each o keep her head above water-is pro-
vided by public subscription Miss
Beatrice He then Beatrice Harraden, author of "Ships That Pass in the Night," and other volumes,
is one of the promoters of the scheme

Sun-bathing has been found beneficial in curing many diseases, as Dr. Rollier
of Leysin, Switzerland, has been successful in demonstrating for some years past
in cases of hip disease and Potts' disease
of the sin reatment is also popuberculosis. The
an parts of
California. More direct sunlight in all the rooms of dwelling - houses is recom-
mended.

An electric oscillator, to be attached to
vessels, which will send out a tone that
an be heard can be heard by other vessels from five
to thirty miles away, has been invented
recently by Prof. 12. A. Fessenden. By timing the echo, it is also possible to ompute the depth of soundings and
proximity of icebergs.
The use of this device, it is claimed, would have averted
all of the most terrible marine disasters
clames Davenport Whelpley, in an artiremarkable Independent, points out that
in Ruscoin There is a rapid awakening of the mentality of the mass of the people,"' he

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den aable and white; rough coat; 10 chate

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And if not entirely satisfactory, we will refund the money Just give us your height and weight, length of pant leg (inside
seam), length of sleeve (inside seam), the size of your waist and breast. FREE with every order, a good hat brush, a suit
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STRATFORD, ONT
had known from babyhood-Peter was al-
hand, or his ear, or the whole or any
ways ready with his come-" or "Nothing would delight me by any mischance you happened to selec come-" or "Nothing woul delight me by any mischance you happened to select
more-" or the formal "Mr., Grayson ac-
cepts with great pleasure," etc., unless
a Susturday night for your purpose, you
must search for him at the Century, To cepts with great pleasure," etc., unless night; then there was certain to be a prompt refusal. reakable engagement and made unlans accordingly. So did moorl Mre McGuffey, who selected this night for he own social outings; and so did most o with his habits. On any other night you might. or you
might not, find Per dent upon his various at home, depenis you really wanted to get hold of his
must search for him at the Century. To
spend this one evening at his fucorito club had been his custom for years-over
since he had been elected to bership-a date so far back in the dha eearch the records to habitue had year, and this custom he still regularly That the quaint old club-house was but a stone's throw from his own
quarters in Fiftenth Street made no difference, he would willingly have tramped to Murray Hill and beyond-


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prise. Our prices are low. The prise. Our prices are low. The
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 Bevinott olleate

 Yonge and Charles Sts., Toront
W. J. ELLOTT
younger and more progressive element
among the members among the members progresedive eleme institu
tion up bodily and moved it that far as later on they did.
Not that he favored any such innova-
tion: "Move up-town! Why, my dear tion: "Move up-town ! Why, my dear
sir !" he protested, when the subject was frst mentioned, "is there nothing in the polish of these old tables and
chairs rubbed bright by the elbows of chairs rubbed bright by the elbows of
countless good fellows, that appeals to
you ? Do you think you? Do you think, any modern var-
nish can replace it? Here I have sat
nit for thirty years or more, and-please
God lthere I want to continue to sit, He was at his own small table
the front room overlooking the stree when he spoke-his by right of long use,
as it was also of Morris, MacFarlane, as it was also of Morris, MacFarlane,
Wright, old Partridge the painter, and Wright, old Partridge the painter, and
Knight the sculptor. For years this
group of Centurions, after circling the group of Centurions, after circling the
rooms on meeting nights, criticising then rooms on meeting nights, criticising th
pictures and helping themselves to th punch, had dropped into these same
suats by the side of Peter.
And thiese were not the only chair And these were not the only chair
tacitlly recognized as carrying special
privileges by reason of long usage privileges by reason of ong usage. Over
in the corner between the two rooms
could be found Bayard Tapazior's chair-
his for years, from which he dispensed his for years, from which he dispensed
wisdcm, adventure and raillery to a
wis. wisdcm, adventure and raillery to a
listening coterie-King, MacDonough and
Colling among them, while near the stairs, his great shaggy head glaistening
in the overhead light, Parke Godwin
held court with Sterling in the overhead light, Parke Godwin
held court, with Sterling, Martin and
Porter, to say nothing of still older Porter, to say nothing of still older
habitues who in the years of their
membership were as much a part of the fitings of the club as the smoke-be
grimed portraits which lined its walls.
On this Saturdey nieht her On this Saturday night he had stepped
into the club-house with more than his
usual briskness. usual briskness. Sweeping a compre
hensive glance around as he entered, as
if looking for some one in the hall, hensive glance around as he entered, as
it looking for some one in the hall, he
slipped off his overcoat and hat and handed both to the negro servant in
charge of the cloak-room.
"George t. money value, Lagarge, and never will
have. You might as have. You might as well list sunneote
on the Stock Exchange. ".But Troyon had shimed in Harrington, who, Hilker;,"
freedom freedom accarded every who, with the
club-ons of its club-one of its greatest charma the
just joined the group and "Yes," rejoined Morris, a sut listenting. pression, crossing hior ris, a quizze-'that was or-
curse of it. curse of it. He was born a man whe
had a stomach instead had a stomach instead of being borna a
god without one. As to living-ho
didn't really didn't really live-no As to living-he
dy lives painter ly lives until he is dead. And that's the way it should be-they would never
have become immortal with have become immortal with a box full
of bonds among their assets.
would have stop can rest in their graves. Now they sciousness that they have done their level best."
of it, or ought thing would nift him out of it, or ought to," remarkéd Harring-
ton, with a glance around the circle
"I "I am, of course, speaking of Troyon,", "The news that Roberts paid thit the painter was for a picture for which and francs," a reply which three thousroar from the group, Morris joining a The circle had now widened to, the filling of a dozen chairs. Morris's way
of putting things che of putting things being one of the fea-
tures of the club nights, he, dominating the talk, calling out "Period"-his way of, notilying sout ever he broke away from the facts and Harrington soang into hyperbolics-Morgan, unison at his sallies. The clouds of tobacco smoke grew
thicker. The hum of conversation loud er; especially at an adjoining table
where one lcan, old acadenicher velvet skull cap was discussing the impressionistic craze which had just be gun to show itself in the work of the
younger men. This had gone the some minutes when the old man on for upon them savagely and began ridiculhide or departure as a cloak to painter asserting in their defence, that any technique was helpful if it would
kill off the snuft-box sch kill off the snuff-box school in which
the man under the skull cap held first Morris had lent an ear to the discus sion and again took up the cudgels. cried young fellows are right,"' he table. "The realists haveward their day; they work a picture to death; all really takes two men but know it, it picture-one to men to paint a great other to kill him when he has and the
enourh 'TPity some of your murderers, Holker, didn't, start before they stretcfied then And so the hours sped on.
All this time Peter had been listening
with one aar wide open-the with one aar wide open-the one nearest
the door-for any sound in that direa the door-for any sound in that. direc-
ion. French masterpieces, Impressionism and the rest of it, did not interest
him to-night. him to-night. Something else was stir-
ring him-something he had been hygcing to hisomething he had been hugOnly the big and little coals in his own fireplace in Fitteenth Street, and perhaps the great back-log, beside him-
self, know the cause self, know the cause. He had not talken
Miss Felicia into his confidence-that
would never would never have done-mipht, indeed,
have spoilt everything have spoilt everything. Even when he
had risen from Morrts's coterie to greet had risen from Morrts's coterie to greet
Htenry MacFarlane-Ruth's father-his intimate friend for years, and who an- whe in-
swered his hand swered his hand-shake, and who "Well, you
old rascal-what makes you old rascal-what makes you look so
happy? -anybody left you a million?"happy ?-anyhody left you a million ?"'-
even then he gave no inkling of the amount of bottled sunshine be was at
the precise moment the precise moment carrying inside his
well-groomed body, excent to remark
with all his twinkles and wrinkles. scampering loose: "Seeing youe, Henry-" an answer
which, while it only excited derision and sly thrust of his thumb into Peter's the, was nevertheless literally true if

OCTOBER 1, 1914


THE FARMER'S ADVOCATE

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Chopped Oats...
Che
Chopped Oat
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Ollill Whe Meal (old process)................
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"De Old Miller's Household Book" (formerly "Dominion Cook Book"). This useful book contains 1,000 carefully-
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## Inspection of Stallions

The inspection of stallions, under the Ontario Stallion Act, will commence
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A list of inspection points and the dates of inspection will be mailed to all stallion owners who are on the mailing list in the
R. W. WADE, Secretary of the Stallion Enrolment Board Parliament Buildings, TORONTO
a written request for same.

## When Wire Prices Go Up Where Do Fence Prices Go? <br> It takes a ton of wire to make a ton of fence. Wire is up $\$ 3$ a ton. With the German production demoralized, the price may never reach low levels for years, but <br> SARNIA FENCE Prices Have Not Yet Been Advanced You know the reason. We can continue to fill orders at present prices until our present stock of material is gone-and it is going fast. <br> 

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| :---: |
| bars |${ }_{\text {tinchea sapart }}^{\text {Stays }}$ | Spacings |
| :---: |
| of |
|  |
| $5 \ldots \ldots$ orizontals |

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| 5 | wo-shear ram, weight 260 for Sale. |
| 5. Ram | lambs, weight 110 lbs. to 180 lbs. |
| quality. | to s1, All the best breeding and |
| respondence | solicited Ge cach. Ganders. Cor- |


instance, who is talking to the old man
in the velvet in the velvet cap
most distinguished engineers. He is Consulting Engineer in the Croton Aqueduct Department, and his opinion is sought all over the country. Ho
started life as a tow-boy on the Erie started life as a tow-boy on the Erie
Canal, and when he was your aga he Canal, and when he was your aga ho
was keeping telly of dump-cars from cut on the Pennsylvania Railroad
Jack looked at the General in wonder ment, but he was too much interested
in the other persons in the other persons about him to pur-
sue the inquiry any further. sue the inquiry any further.
"And the man next to him-the on wind the man next to him-the on
with his hand to his head ?",
"I don't recall him, but the Majo may." "That is Professor Hastings of Yale I replied-"perhaps the most eminent
chemist in this or any otfier country." "And what did he do when he was a
"Ahemist in this or antry "Made pills, I expect, and washed ou test tubes and retorts," interrupted
Peter, with a look on his face as if the poor professor were more to be pitied "Did any of them dig?" asked the "What kind of digging ?" inquired "Well, the kind you spoke of the night "oh, with their hands?" cried Peter -"' and his glance roved about the room. '"There is Mr. Schlessinger, the
Egyptologist, but of course he was after Egyptologist, but of course he was after
mummies, not dirt: and then there iomummies, not dirt; and then there ie
yes-that sun-burned young fellow of forty, talking to Mr. Eastman John son; he has been at work in Yucatan
looking for Toltec ruins, because he told me his experience only a few nights
ago; but then, of course ago; but then. of course, that, can hard
ly be said to be- Oh!-now I have it. You see that tall man with sidewhisk--my kind-my boy-well, he started lile
-mank president with a piek and shovel. The steed point of the pick if I remember rightly
turned up a nugget of


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It is well when feeding laying hens
to supply at least half of their daily to supply at least half of their daily
rations in the form of a dry mash, try rations in the form of a dry mash; try
the following, keeping the hopper open
in the afternoons only:-
$\underset{{ }_{26} \text { By lbs. Corn Meal Meight }}{\text { By Measure }}$
 13 libs. Wheat Bran
5 lbs . Alfalfa
5 g (ts. Alfalfa 5 lbs. Linseed Oil Cake $\quad \begin{aligned} & 8 \text { qts. } \\ & \text { Meal }\end{aligned}$ $241 / 2$
Lbs.
Ginan
Gunns Shur-
Beef Scrap 17 qts. Beef Scrap 1/2 lb. Salt ${ }^{3}$ pt. Salt Feed whole grain in a litter night and morning; 2 parts wheat, 2 parts corn,
1 part oats and 1 part buckwheat makes an ideal ration. Cut down night and morning feeding in case of pullets or fowls in heavy laying to
eating of the dry mash.
This ration should be supplemented
with beets, with beets, cabbage, sprouted oats,
green clover or other succulent food,
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THE FARMER'S ANVOCATE

Questions and Answers




 Miscellaneous.
Propagating Black Currants.
Would youl Would you please tell me, through your
paper, when the proper time is to tarie
awlin cutcings of black currant bushes, and
when to plant them
R., M.
 answered in our issle of sept. 3, 1911
on page 1600 . Refer to that issue.
Res. Dressing Poultry Tell me how to dress fowls, should
head and feet be removed or not, and the difierence in price from
to dressedy
N. $\left.\begin{aligned} & \text { ive weight } \\ & \text { N. }\end{aligned} \right\rvert\,$ Ans. - In dressing fowls for market,
leave the head and feet on.
Once ence in price between dressed poultry and
live pooultry usually ranges from two to tour cents per pound Thes This is omparing
the live with undrawn dressed poultry. Bloody Milk.
Have a fine Holstein cow. About a
month ago she started to give bloody millh. We thought she had her udder
mill
hurt. She does not got had hurt. She does not get better. J. H.
Ans.- Purge with two pounds of Epsom
salts. and foll salts, and follow up with three drams of
nitrate of potash threa times daily for few days. Rub well the part that gives
bloody milk after each milking, with bloody milk after each milking, with
camphorated oil. -
Editor "The Farmer's Advocate Patents and trade-marks grantcd to a
subject of any state with which, Great
Britain is subject of any state with which, Great
Britain is at war are not declared to be
void, but may be voided or suspended in void, but may be voided or suspended in
whole or in part on application to the whole or in part on application to the
Board of Trade. The applicant must put Board of Trade. The applicant must put
up a fee of two pound with the applica-
tion, and a fee of hall a crown for depositing foreign ducuments or other
papers papers for purposes of record. Th,
Blaard of Trads may then suspend or void
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pears that the person applying in iends to manufacture the invention, and if it ap-
pears to be in the pears to be in the general interest of the
country, or a section of the community,
or of a trade Country, or a section of the community,
or of a trate, that such article sholld
be manufactured or any process carried
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Questions and Answers. Miscellaneous.


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## 20

Meadow Lawn Shorthorns
R.O.P. Shorthorns--R.O.P. Jerseys

SHORTHORNS

Questions and Answers.
Miscellaneous.
Law Regarding Large Drainage Systems.
Several of the farmers in this locality with myself, took steps this summer t, procure an outlet fur the drains which
we purposed digging on our farms. The
Township Council emploved an enviner Township Council employed an engin.er
to take the levels and make an assess-
ment, at a cost of $\$ 200$. ment, at a cost of $\$ 200$. On the 24 hh
of August a meeting of the persons
directly interestad was held, when a vota directly interested was held, when a vote
was taken and the scheme was rejected by a vote of 13 to 9 . The cost of the
whole system of drains was upwards $\$ 3,000$, my share being $\$ 453$, or fully oneeighth; against this I made no pro-
test, for I considered that the outlay lest, for I considered that the outlay
would pay me. Now what am I to do ?
I cannot ard Cannot allord to shoulder the cost of $\$ 12,000$. Would it pay to leave a large
part of it unproductive for the want of drainage? Every acre made more pro-
ductive is a distinct asset in tha wealth of the country. Governments sometime. undertake the reclamation of tracts with
a view to adding to the wealth of the
state, then why should private individ uals be suffered to keep their neighbors' lands
Must I remain without unproductiveness ? excess of water in my land until my neighbors become generous enough to be
gin draining and thus relieve the situa-
tin my place where the side-road and the concession allowance intersect, there is a
pond cut into four parts by pond cat into four parts by the crossing
of the roads. Here the water coming from the high lands, rising towards the east, submerges the land about the cor-
ners during a large part
 grade is hing season, although the road-
high it overflows, making the highway well-nigh impassable.
SUBSCRIBER. Ans.-The constructicn of this drain in
question must come under the Municipal
Drainage Act as the cost Drainage Act, as the cost for same is in
excess of $\$ 1,500$. Section 3 of this Act, specifies the requirements necessary to the
commencement of the work, and says "Upon the petition of the majority in
number of the resident and non-resident
persons (exclusive persons (exclusive of farmers' sons not
actual owners). etc., etc.". Section 18
of the same Act, allows for the with drawing or receiving signatures of any
parties, unfavorable or favorable, to the
exceution of exceution of the work. Unterstan ling
these two sections herein given in brief,
Section 20 of the Act explains your cies "Should "the petition at the close said meeting of council contain thz names
of the majority of the perstes of the majority of the persons shown
as aforesaid to be owners benefited with-
in the area described in such petition, in the area described in such petitio
the Council may proceed to adopt th
report and pass a by-law authorizing th work, and no person having signed the
petition shall, after the adopticn of the
report be report, be permitted to withdraw; but if
after striking out the names of the perSons withrrawing, the nameses remaining,
including the names, if any, added as provided by Section 18, do not represent
a s sufficient number af owners within the area described to comply with the pro-
visions of Section 3 , then the persons who have witharawn from the petition
shall, on their respective assessments in
the the repqut, with one hundred per centum
added thereto, together with the other original petitioners on their respective
assessments in the report, be, pro rata,
chargeable with and liable to tho ipality for the expenses incurred by said
muncipality in connetion with such peti-
tion and report, etce., etc." tion and report, etc., etc."
The majority going against the report, The majority going against the report,
that object is effectually quashed, and you must now bring before the Councils
and your Representative, the menace to
health and roads that exists in the un
dreind drained lands or ponds. Sulside of
recourse you have none, oo tar as
can see, and it will probably be a

Will Water-Bowls Pay For Themselves
This was the question asked of the
manniger of one of the B. . . Experi-

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 and
 hitercold winter never who thrsty on
be driven out to the spring or troant
bith They can take a a ittee sup every now and
then, and get all they revurice maximum milk yield. All the troubles coming from gulping down cold water right after feeding are avoided, and none
of the animals lose flesh because of con stant fighting and bullying at the waterins -place.
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and lts age.
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## Questions and Answers

 Miscellaneous.Napoleon's Statement Which statement, credited to Napoleo 1. If he had English Generals to lead world; or, troops he could whip the
wore 2. If he had French Generals to lead
English troops he could whip the world. Ans.-We believe the latter is correct. Musty Hay.
My new hay is unaccountably musty,
and has given one od horse a touch of heaves. Can you advise me anything to do to obviate this? Would sprinkling
salt over it do any good? Ans.-As the hay is already dusty
atout all you čn do is dampen all of it with lime water to prevent injury to
horses eating it. The salt, to be of
value, should have been put in with the
Water Suppl

As I have seen many questions relating Farmer's Advocate," of which In am a
constant reader, I would like to to my barns with a a windnill. the water feet high; then hill, I should say, 20
Would you advise putting to mill stable spring, or or advise putting mill ove Irom spring to tenk. I amm putting
tank in the ground on bill, about What kind of a tank would you advise using ? Also what size pipes to use
What size tank would it take to ho water enough for three days' supply tur
35 head ? Ans.-A good tank colld be built F.
cement, with the walls five inches at the bottom and four inches thick at
the top. Wash the inside with cement Che top. Wash the inside with cemect
plaster. A round tank six feet in dian
eter and six feet high should eter and six feet high, should hol
enough for the stock, but it might he
visabi visable to make it a little larght
sure of never running short
We We have inch-and-a-quarter pipe at water
wood, and it works satist windmill should work all right placed alt
the spring at the spring or on the raise. Some prefe

Pumping Water
Am desirous of putting water into m
stables, obtaining the supply stables, obtaining the supply from
spring one hundred yards distant fro
and and about twenty feet below the level o
the stables, in ravine or gully, the bot tom of which is marshy land. I have the bot
one-horse power gasoline eng. stable end would like to draw the wate
up with it if such is practical, as up with it if such is practical, as it
would save expense in buying a wind-
mill. Could I do so successuly would it be more advisable to put put
windmill on the edge of windmill on the edge of the ravine, thus
drawing the water part way and forcing
it the balance it the balance of the way? What heigh
can water be successfully raised by means
of a suction-pula of a suction-pump such as I would have
to use? Do different distances horizon-
tally make any difference to Cally make any difference to the fower
required? Ans.-The same principles apply in this
Case as in pumping water from a well
strin straight below the pump, only having
such a long pipe to the spring you must
be very sure that the fointy orecher tightly enough to make screwed
air-tight. Theoretically, suction will water 32 feet, but since it is not wossible
to make a pump which will verfect vacuum, it is found by practical
experience that the sucker Ought to be not suove of the pump 2,5 feet
vertically from the level of the As your stablew arow within 20 ghe water.
 rovidde in the working of the pemm are air-tight, exan


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100 Escana Farm Shorthorns 100 MITCHELL BROS., Props., Burlington P.O., Ont. Jos. McCrudden, Mgr. SHORTHORNS Pre of the them are bred and made so that therylai

$\qquad$ , Stouffville, Ontarlo
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Maple Grange Shorthorns

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0 thia season,
olreb; all rens rem and ewe lambs by imported dres; all registered. Prices reasonable. importen
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lambs, 6 yearling ewes and a few ewe lambs. My
flock had the cham

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service; soung stok of thoth sexes. pait no
akin. All brecting stock imported or frum Hampshire Swine AmMPTON. ONI ses; from impor $\frac{\text { R.R. No. } 1}{\text { Sunnyside Chester Whick. Ont }}$ and female, as well as many less
breeding in our herd; young st age. W. E. Wright \& Son. Glanworth Oni
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Gossip.
kelso ayrshire
For many years a few notes mendation of the noted Kelso herd Ayrshires, owned by D. A. Nactirlane,
Kelso, Que, have appeared in these co umns, and the writer is tree to admit that never before has he felt more sat is
fied in Ged in pening lines of commendation on
superior individuan ability of the hered asi year of grace, 1911. It was a fortunat



 after freshening, Imp. Garcloth Rosebud
gave 65 lbs. a day, and the others from 50 to 57 lbs. The result of the year's
test should place the herd best as producers. Mr. Macfarlane in-
tends to go on with as they freshen. Many of these fame big shows, notably at ottawa, and only first in the Candian-bred Kelso was among a large line-up of good ones. Mr.
Macfarlane has always lo ofler of any desired age; also young
bulls. Write him your wants, as he is situated in one of the strongest Ayrshire
districts in thing for you if he does not hap some J. E. ARNOLD \& SON'S PERCHERONS clean-up or has seen a pretty thorough eron, Shire and Belgian horses at the bis Quebec shows, by the high-class entry of
J. E. Arnold \& Son, of Grenville. Que importers and breeders of the above-menber of Coach and Standard-breds idea of the high-class quality of the
horses imported by the Messy can be gleaned from the Messrs. Arnold of their winnings this fall at Sherbrooke Quebec, and Three Rivers. In the class over, Roscoe stallions four years old an splendidly - balanced black eight-year-old Kas first at Sherbrooke and Quebec, upstanding gray four-year-old, smooth, at Sherbrooke, first at Three was secon lourth at Quebec; Kyste (imp.) 3898 , ther big gray four-year-old, was secona at Three Rivers and fourth at sherbrooke
and Quebec; Loin (imp.) 3901, a gray
$\qquad$
$\square$ and winner of champion over all ages and Quebec. Lurz (imp,) 3901), gray as second at a houthec and thro scale and third at Sherb,rooke; ('hancellor
(imp.) 3179, gray, three years old Gird at Quebec and Three Rivers, and ematrered that the classes when it is on. Besidus the alove, other comparihampeonship on the bulu were first and st and championthit on the Shire stal an, Jollietl Cemeral (imp), 1015s, a bay
$\square$
$\square$

Shropshires and Cotswolds $\begin{aligned} & \text { I have now for sale } 30 \text { extra large well } \\ & \text { covered shearling rams, } 100 \text { shearling ewes }\end{aligned}$
 Spring Valley Shropshires

Sunnybrook Yorkshires $\begin{gathered}\text { In improved large English Yorkshires, we car } \\ \text { supply either sex, eight weeks old and up, sired by }\end{gathered}$
WM. MANNING \& SONS, WOODVILLE, ONTARIO

DOLSON \& SON, Norval Station, Ont
YORKSHIRES AND HOLSTEINS $\begin{gathered}\text { Yorkshire sows for rath } \\ \text { some bred and some read }\end{gathered}$



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station.


[^0]:    About the roundabout club Dear Junia,-I am very interested in
    the Ingle Nook, and have come for help. Can I obtain in, formation from you about the Roundabout Literary Club,", which I have read so much about in "The Farmer's Advo-
    cate"? Is it a "free cate"? Is it a "free-for-all club," or
    are there charges for membership, and
    what is the like very much to of the Club ? Would to join, if there to is room for a newomer. We have taken "'The for a new-
    Advocate's like it; it's for three years, and we all
    Hiteresting, especiall Home Depart in int, with its literary selectrons, "Hope's Quiet Hour," "Children's
    Page," "Fashions," etc., etc. Thanking Colchester Nova SCOTIAN. The Roundabout Club is a "Pree-for-all club,", conducted during the a winter. Thor-all
    aim is merely aim is merely to give those who wish to
    study, write essays, etc., at home, something definite to work for., at home, some-
    souvenirs, rather prizeshouvenirs, rather, to those who obtain to find out, each year, that study for the study's sake counts for much more to
    those who take those who take part, than the winning

