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## EDITORIAL.

What of the Rural School!
Clover pasturage produces pork at greatest profit.
Plant your corn according to the story told by the test. I.

A small garden well kept is more profitable than a balf-acre of weeds.

Grow what your land grows best, rather than jump to new crops all at once.

Sow the mangels as soon as possible, but put them ins.soil that is ready for the seed.
When seeding is finished, the drill would be better lone the barn than in a fence corner.

Grow more potatoes if you can manage to do so. An article in this issue may help you.

What a pity the shell that demolished the Kaiser's car had not destroyed the War Lord himself!

The price of pork has been high enough that the feeder could afford to make hogs of his pigs.

Save the grass by keeping the stock stabled and varded until May 10 to 20 , according to district.
When laying out the lawn, remember that to be an attractive lawn it must be cut regularly. Make it small.

Sheep and lambs should be dipped before going to pasture. An outline of the methods and practice is given in this issue.

The horse business is not flourishing; still, if you have a first-class draft mare, you can ill afford not to breed her this year.

The Canadian farmer is ready to produce all he can under the circumstances. He cannot enlist and produce at the same time.

The German leaders seem to think Verdun is of great importance-otherwise they value the lives of their soldiers at very little.

Do not plow the manure down too deeply on corn and root ground. Its fertilizing ingredients will go too deep for the plants soon enough.

The call for greater farm production and the bugle call for overseas service seem to conflict a little. Can our Government not tell us which is which?
. Let us cease thinking so much of agricultural education, and devote ourselves to educational agriculture, So will the nation be made strong."-Herbert Quick.
Save the heifer calves. Fewer men on the farms means more grass, and more grass means more cattle. Get them the safest way by keeping the best of your
own breeding.

If the time spent in displays of partizan distrust and political manoeuvering in parliament were devoted to the straightforward transaction of business, the country would be millions of dollars ahead, nine-tenths of the royal commissions would be out of business, and legislators would rise about one hundred per cent. in the estimation of the public

A country's most valuable asset is its boys and girls. Canada, essentially an agricultural country, should be most interested in the welfare of the boys and girls of the rural districts, because Canada has a preponderance of rural dwellers. The greatest need of these boys and girls is an education that will make thinkers of them and equip them to make a living and to get the most out of life. It is more important that the boy and the girl are able, through the training which their young minds should get, to go out in the world and use their heads, than it is that their early education be slurred over while father and mother work their finger nails off to get a farm for each of them. How many boys and girls are there but would rather have early training, or education, which would fit them to think in such a way and to act in accordance with their thoughts so that they could make the money to buy the farm themselves, than would do without the education and take the farm which father and mother had slaved and saved to buy and pay for! The question is: Are our rural schools, as at present organized, in the best possible position to give the boy and girl the training necessary to make the kind of thinkers out of them that will enable them to get most out of life financially and in every other way? If the rural school is equipped as it should be, then the city school must be over-equipped, and we would not for one moment admit the latter. City schools are graded schools, usually with a competent man or woman as principal, and who has a thoroughly efficient staff of teachers for all grades. The city boy and girl now have the advantage of an elaborate equipment for technical education, and what has the farm boy and girl to correspond with these advantages? Are you satisfied that your boys and girls be handicapped as compared with the city boys and girls? Is it fair to the child of the farm that the little old red school house on the hill, presided over by a girl in her 'teens, who has the entire school to look after and who, very often, has very little sympathy for agriculture and very little time or opportunity to teach it, should be, as it is, the early training ground of the young minds of the country? Is it fair to the child to entrust his or her training to a person to whom the trustees are often unwilling to pay a salary as high as that which they give the man who feeds their milk cows for records at home, or fits their prize cattle for exhibition or market? -Canada has universities, colleges, special schools, agricultural colleges, second to none in America. Short course systems have been devised and perfected. Technical schools of an elaborate nature have been built and equipped in towns and cities, but still our educational system is incomplete and inadequate. What chance have children in the rural communities of getting elementary instruction in agricultural science, in mechanics, knowledge of which is so necessary in this twentieth century, in domestic science, which the farm girl has just as good a right and just as much need to study as any other girl? The isolated rural school with. its girl teacher and its fifteen or twenty-five pupils, as constituted at the present time, cannot accomplish what it should for the boys and girls of the farm. The only apparent remedy is consolidation, and we believe that if the fathers and mothers, particularly the mothers, liviog in the rural districts want it, they can get it. They can $\hbar a v e$ their schools paesided over by men and women who have had special training in their particular line. They can have graded schools and their children can have the advantages of training in domestic science and technical education on a par with that given in city schools, and, even better, for opportunities are greater in the country. It may or may not mean a
little extra expense, but the best equipment the boys and girls of this country can get is a thorough, elemen-
tary education which trains them to think, and no farm father or mother should be satisfied unless their boye and girls are getting that education. Put a little of the energy devoted to saving money to add another farm to the holding into securing for the boys and girlo raised on the farm in this old province a broader and better elementary education as a start in life, and the boys and girls will get the money to buy their own farms when they have sufficiently advanced in years, and will have an outlook on life which is impossible to the boy and girl who have not had such education. Will consolidation of schools do these things? Our purpose eare open for discussion of the subject, and we purpose elaborating upon it in future issues.

## A Freshet of Frightfulness!

With the coming in of spring, when a dormant world revives to beauty and productiveness, the German Terror assumed, if that were possible, fresh frightfulnese on sea and land. For long weeks and weeks, in one of the most desperate and stubborn battles of all history, a million men have been fighting at Verdun, and, amid, the roar of 6,000 cannon, the soldiers of France have struggled, with undaunted heroism, arainst the vaders of the Republic. Military experts described it as a culminating effort to strike a fateful described it the vast gathering armies of the Anglo-Allies were let loose upon the foe as the snows disappear and the earth hardens over the far extended battle lines. On the Eastern front, from Riga to Galicia, the Russian forcee have been re-organized and re-equipped for another titanic conflict. In their mountain warfare, where the Italians have been taking point after point, but latterly snow bound, their advances are to begin down grade across the lower mountains and into the Austrian plains. Strong Anglo-French forces at Salonica are reported prepared for a drive, and, realizing that she would be assaulted simultaneously on all fronts, Germany struck at her greatest danger point of Verdun-where a spectacular success might rally the nation. She inaugurated a more terrible submarine warfare and Zeppelin raids, resulting chiefly, in England and Scotland, in the destruction of homes and the murder of women and children. If this be the Kaiser's conception of a prelude to peace negotiations secretly desired by Germany, leaving the War Lords with a navy intact and stolen and outraged European lands in their pos. session to dicker'with, they surely misjudge humanity and the spirit and purposes of the Allies.

## Let the Horses Do the Hoeing.

To the average farmer corn and root ground meane extra work. The acreage of roots has dwindled during the past few years, largely because of the scarcity of labor and of the amount of work that was absolutely essential to produce the crop. Corn has taken their place. Some of our best feeders believe that cattle and other stock, do better on a roughage ration which contains roots and corn silage than they do on either alone, but corn has gained prominence through the comparative ease with which it may be cultivated comparative ease with which it may be cultivated
during the summer and because the silo may be filled during the summer and because the silo may be filled by a little co-operative effort on the part of neighbors, and the feed is all cut and ready for the stock at short notice. In preparing the land for corn and roots this spring we would advise a little extra cultivation to do away with the weeds by horse power rather than leave them to be handled later on when the crop is growing. Mangels are generally considered a "dirty" crop. We have seen fields very well cleaned by being cultivated thoroughly in the spring and left lay about a week before the mangels are sown, then cultivated and harrowed again. To get rid of hoeing this year is a good practice, and it is well not to plow the ground in the

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spring, but to cultivate the top to get it cleaned before the mangels are sown, and then sow with the grain drill on the flat. The same could be done with turnips, only more cultivation should be given, as it is not necessary to sow turnips before June 10 or June 20 .
Turnip land is generally the better of being plowed once or twice and thoroughly worked and cleaned before the crop goes in. Corn should go in soon after mangels, but it would generally be advisable to put a little extra work on the field both from the standpoint of cultivation and from that of killing the weeds before the corn is planted, and if there is any danger of the system should be practiced so that the cultivation can all or nearly all be done with horses. There will be less time to hoe this year than for many years. Plans should be laid to do most of the work ordinarily done with the hoe with horse-drawn implements, and now is the time to make these plans.

## All Together for 1916!

Our Scottish letter, this week, is written in none too optimistic tones. Natural conditions in the British Isles, particularly in Scotland, have not been favorable during the past wime the letter referred to was written, March 28, the season was described as being from six becoming anxious. All spring operations were very much delayed and blizzards were still raging. The
labor shortage is being keenly felt in that country even more so than in Canada, and hay was described as selling from fifty to sixty dollars per ton, and was grass was plentiful. We are simply mentioning this to draw the attention of readers to the importance of production in Canada this year. It may be that the
Motherland will find great difficulty in prochcing maximum crop this season, and it is the duty of Cana-
dians to put forth every cffort to increase, if possible, dians to put forth every effert to increase, if possible,
the output of their farms this year. We would also
 to the inpportance of product iom in this country this
year. There mayy be some flood for thoughtu, even for y=vem

By growing more wheat, more barley, more oats, more corn, and more roots per acre this year to be turned and more flour, more beef, more pork, more mutton may wore mik and its products, Canadian farmers the military men and won unless the armies are supplied and well fed It begins to look more and more as if the men who ar absolutely needed to work the land and who do their best on the land this year are as true patriots as those in the ranks. We have no time for shirkers, howeve and the man who is not ready to do his best on the farm is just as much a shirker as he who hides from the recruiting sergeant. Uncultivated fields should be uncommon in 1916, but some men must be left on the farm if this is to be the case. The safety of the Empire may yet depend on food as well as men. Then, all hands together for 1916 !

## Work Together, and Grow Clover, Corn, Cattle, and Other Stock.

more the days go by, the farm labor situation becomes by a Welli We published, last week, a question asked hundred-acre farm, can get no skilled hired help and wants to know how he can handle the farm to make it pay. How can he?
We are not familiar with conditions as they prevai farms during the farm, but we have visited many tenants are in practically the same predicant or our Wellington county reader. True, not all of them have two hundred acres, but most will be called upon to work anywhere from 50 to 200 acres, with the average running 100 acres or more, practically alone. As a general thing, sudden and radical changes in farm thrifty, steady going, thinking farmer who knows his land has been doing the best he knew to make it yield fair cash returns. A farmer, who called at our office a few days ago, when asked about the labor situation in his particular locality, remarked that he and his neighbors expected to get along very much as usual because they had been without men so long that they had adapted themselves to the situation and were prepared to do the best they possibly could alone. As a matter of fact, it was his opinion that farmers there are thy well look after themselves. Or course, few years, help has been so scarce that many farmers have planned to do what they could with more horses with more modern implements and machinery, and with working themselves, long days, and these are in the best position to face the situation this year. But the man on 200 acres obviously cannot do alone. He can scarcely properly seed the amount of land which should be in crop on a farm of that size. He cannot handle to the best advantage sufficient hoed crop such as corn and roots, to provide a maximum yiel of these crops to feed the number of stock such yiel should carry through the winter. He cannot a vest the crops were he able to produce them. It har seem that he must either "scratch over" som It would work in a slip-shod manner, or must put forth a Her culean effort to do two men's wôrk this year while he gets more of the farm under grass and plans to carry stock, he must produce a larger quantity of more feed for winter, which would mean a larger acreage of with plated so that it could be worked both ways with the horses to avoid hoeing
But the crops must be handled, and we have many times this spring advised neighbors to early lay their hay and grain as well as corn. Silo filling has long been a successful example of the possibilities of co-operation amongst neighbors. This year in sections where large e can the rule, about the only solution to the problem and plan to handle their crops co-operativelv. By working together in haying and harvest we believe that the owners and tenants could handle a far larger
acreage than is often taken off even with the help of some hired men. Of course, large farms should be well uguipped with implements and machinery. There will norrow cultivators and drills, and
$\qquad$

Where a number of neighbors, work together, two or three mowers could be used on the one farm to trin up the hay, and it could soon be run into the barin when the outfit could be moved to another farm. The many hands would make lighter work all around and the men, all vitally interested, would not kick at working after six, if necessary. As a rule, we do not times, to finish fields and to get work dae, but some be otherwise hampered by rain, it is necesarh would in a few extra hours, and where neighbessary to put this could be dore this could be done satisfactorily. The seeding we believe can be very well put in, even though men are scarce, provided farmers are equipped with wide implements up. It everything ready the minute the season opens up. It means a little extra rush and tired legs for : while, but there seems to be nothing else to do. The only hope seems to be in a more elaborate farm equipment, making implements and machines do the work of men, a scheme which will also allow the farmer to make better use of his horses, and, coupled with thin co-operation amongst neighbors or changing work much as is dono at threshing and silo filling ting work, We have not solved the difficulties of a lone on 200 acres of land. It is obvies of any man one on not go in to the dairy business, but we believe that by liberal use of grass seed this spring, and by judiciously increasing the rive stock, be it beef cattle, sheep, and pigs, and, by laying plans to another year, grow rough eed to feed this stock through the winter, and plenty of pasture and hay, the farm could be made pay. It is impossible to change farm plans in a few days. All conditions must be considered, but the hope of the Ontario farmer seems to lie in grass, the clovers, corn, and the necessary high-quality live stock to consume hese crops on the place. Of course, some grain must be grown, and on some farms a few roots, but the basie of the farming operations should be corn, clover and cattle, or other stock.

Studies in Political Economy-VIII.
Last week, in considering ways and means of stimu lating Canadian agriculture, the noxious effects of speculating in land were pointed out, and it was also ment evident that the appropriation of the Ground As we said it is generally altuly kill land gamblinge agriculture needs stimulation. It is not however generally admitted that from an economic point of view agriculture has not been getting its just due; the decline of agriculture has been attributed rather to those incidental and accidental conditions of which mention has been made already, and which I maintain
do not touch the root of the matter. I propose therefore, to submit some of the matter. I propose, theretouching upon this question, which evidence explains in large measure the recent relative decline of Canadian agriculture
The production of manufactured articles in Canada for 1910 is given as $\$ 1,165,000,000$ (census 1911). The
production for 1905 is estimated as $\$ 718,000,000$ (Canada production for 1905 is estimated as $\$ 718,000,000$ (Canada in the five years was therefore $\$ 447,000,000$. Assuming the same increase in the next five years, we have a production of $\$ 1,612,000,000$ in 1915 , or an average of nearly $\$ 1,389,000,000$ per year for the last five years. as can be gotten under the conditions, let us accurate the average production of manufactured articles per year for the last five years, has been $\$ 1,400,000,000$, an increase of one-fifth over the figures for 1910 . The capital employed in manufacturing in 1910 was
$\$ 1,247,000,000$; and it is perhaps fair to assume that this has increased during the last five years in a ratio corresponding to that existing in the case of the increase
in production. The average in production. The average capital employed during
the last five years may, therefore, be taken to be $\$ 1,500$, the last fi
000,000 .
The cost of labor and raw materials in 1910 was
$\$ 842,000,000$. Assuming a similar increase of one-fifth the average cost of labor and raw materials per year
for the last five years may be taken as a round billion Deducting the cost of labor and raw materials from the total product, we get an average balance of $\$ 400,000$,000 per year for the last five years.
Deduct from this a further sum whem


## ,

$\qquad$ ment in our manufacturing enterprises. I cannot find
any figures dealing with this, but I submit that, with
a capitalization of $\$ 1,500,000,000, \$ 1,000,000,000$ is a a capitalization of $\$ 1,500,000,000, \$ \$ 1,000,000,000$ is a
liberal allowance for equipment iberal allowance for equipment. Deduct, therefore, a
further five per cent. annual depreciation on equipment,

April 27,

## Manufact

## Surplus Profit

ture was $\$ 4,231,000,000$. During the preceding decad (1901-1911) the increase was 136 per cent., or 13.6
per cent. per annum. Part of this increase is due per cerat. pise in commodity prices and land values. Making due allowance, however, for the fact that the rise in the prices of agricultural products has been oomewhat more rapiloyed in agriculture for the last five cears cannot be less than $\$ 5,000,000,000$. It is probably considerably more, but we shall err on the safe side.
The total value of farm products in 1910 (field crop, ruits and vegetables, animals sold or slaughtered, dairy products, wind crease in the quantity and value of field crops but very little increase in other lines. The number of live stock has been, in fact, slightly reduced, though the value may have increased somewhat. The average annual value of the field crops of Canada for the five Year Book, 1914, p. 165). The value of other products was $\$ 338,000,000$ in 1910. The average value of these other products for the five years 1910-1914 cannot well be over $\$ 400,000,000$. Let us be on the safe side, however, and assume that the value has been $\$ 450,000,000$ per year. On this basis, therefore, we have a grand
total of $\$ 1,000,000,000$ agricultural production per total of $\$ 1,000,000,000$ agricultural pro.
We must now deduct from this total the various costs of production. First, labor cost: What is it? In 1910 some $\$ 34,000,000$ was paid out as wages to farm laborers. Since 1910 it is questionable if there has been
much increase, if any, in the number of farm laborer The rate of wages, however, has risen somewhat so that it is not out of the way to assume that some $\$ 40$,000,000 has been paid out for farm labor per year for the last five years. In addition to this labor we must include the labor of the farmer himself and his family
In 1911 there were nearly four million people livini 714,000 farms in Canada. Upon every farm holding the occupier himself worked, and to some extent also his wife and children performed a share of the farm work. On some farms the women do a good deal. On some farms the farmer has a grown up son who performs the work of a hired man, but who is not so classed. He shares the income as partner or otherwise. On some
farms there are three or four workers from the family. Now, what is the average number of workers per farm holding, exclusive of those classed as "hired help?"
The question is a hard one to answer, and I cannot The question is a hard one to answer, and I cannot ind any information along this line in the census reat least two workers per farm; or, otherwise, there are at least 600 days' work, on the average, per year are plied to each farm holding in Canada, apart from that abor for which direct and specified cash wage is paid. How shall this labor be paid? 1 find that the average wage paid workers in the manulacturing industries in sidering the quantity and quality of the work done on our farms, and demanded by modern farming it would be grossly unfair to pay those engaged in agriculture less than those engaged in manufacturing, in which a great deal of the work is largely mechanical. They are safe side, and only allow them the same wages. Assuming then $1,500,000$ workers (exclusive of "hired help") on the 714,000 farm holdings, and allowing each worker $\$ 480$ per year, the labor cost in agricultural production amounts to $\$ 720,000,000$, plus $\$ 40,000,000$, or a total
of $\$ 760,000,000$ per of $8760,000,000$ per annum.
value of the annual product, we have the total $\$ 240,000,000$. But we must, make further deductions col ins, viz., the interest on capital invested, municipal taxes, and an allowance for depreciation of equipment. Five per cent. on the investment is $\$ 250,000,000$
and a municipal tax of this figure in Ontario one per cent. (almost exactly makes another $\$ 50,000,000$. The value of the farm ${ }_{81,000}$ building and implements in 1911 was somewhat over $81,000,000,000$. Not to speak of fences, and the in
creased creased value of equipment since 1911, five per cent. makes another $\$ 50$ on this investment in equipment further deductions is $\$ 350000$, sum of these three take from our balance of $\$ 240,000,000$, leaving a deficit of $\$ 110,000,000$
The sollowituation can tabular form. expressed more concisely in

Capital Investment......................... $\$ 1,500,000,000$
$\begin{gathered}\text { Cost of Labor, etc } \\ 5 \text { per cent on Investment }\end{gathered} \$ 1,000,000,000$
$\begin{array}{ll}1 \text { per cent.M Mnvest ment } & \begin{array}{l}75,000,000 \\ 5 \text { per }\end{array} \\ & 15,000,000\end{array}$
per cent. Depreciation... $50,000,000$
Total Costs
Surplus Profit
Farming in Canada. 1910-1914.
Capital Invest:ncht
Value of Prodinet (Annua)
and

| Caue of Products (Annual) |
| :--- |
| Cost of Labor (Annual). |
| $\$ 760,000,000$ |
|  |
| $1,000,000,000$ |


$\$ 1,110,000,000$
$\qquad$
260,000,000
$\begin{array}{ll}\% \% \text { Depreciation (Annual) } & 50,000,000 \\ \text { Total Cone }\end{array}$
little light upon the corison unquestionably throws no discrimination of $\$ 370000$ drift, for, with an annua dustries, no sane man could expect anything other than what has happened.
Next week I shall offer some explanation of this
tremendous discrimination tremendous discrimination by an analysis of our present system of Federal taxation, with special reference to its

Note-Those W. C. Good. matter more fully can verify my figures and calculation by consulting the returns of the last Census, the Canala Year Books, and other official documents.-W. C. G.

## Nature's Diary.

Iwo delicate little flowers which are now in bloom in our woods are the two species of Spring Beauties. petals which vary in color from are similar, both having with darker veins, five stamens, and a style pine pink, froe-cleft at the apex. But, as may be clearly seen quite different iltans, the leaves of the two species are quite different-in one long and very narrow, in the
other shorter and broader


Fig. 1-Narrow-leaved Spring Beauty.
Beauty is found from Nova Scotia to Alaska, and the Saskatchewan Spring Beauty from Nova Scotia to there are many ougces with their range as a whole, where one species is common and the othor range Thus in the vicinity of Kingston, Ont., I have seen only the Narrow-leaved species, on the Bruce Peninsula
only the Broad-leaved Spring Beauty, while at Cuelph only the Broad-leaved Spring Beauty, while at Guelph
both species accur-
The Fox Sparrow is now passing through Ontario on its way to its breeding-grounds in the north. This
species is one of our largest and handsomer It is rusty-red above, the color being purest and brightest on the rump, tail and wings, and the other upper parts appearing as streaks laid on an ashy ground, below it abdomen, with rusty-red, the markings alongept on the and on the lower part of the breast being in the sides arrow-shaped spots, and pointed streaks. The wings
have two whitish bars.
\$ $110,000,000$

Fig. 2-Broad-leaved Spring Beauty.


The Fox Sparrow winters in the middle and southern states. It begins its migration from its winter range
about March 10th, by March 20th it reaches alout March 10th, by March 20th it reaches the New
England States and Chicago, by March 30th it arrives in extreme southern Ontario, by April 10th it is in central
Ontario, by April 20th the species reaches Muskoka and Manitoba, by May 10th if arrives at Great Slave alke and by May 20th those individuals which push on to
Alaska have reached their breeding grounds. It is thus seen that this species takes forty days to travel
Irom Missouri to Manitoba, a distance of on miles, while in thirty days it goes from Manitolsand to
Alaska, a journey of two thousand five hundred miles. Mack the same thing is to be noticed in the cases of all species of birds that winter in the southern states and breed in the north-west and whose migration has been
studied-that they greatly increase their speed as they go northward. This is due to the fact that the rise in
temperature occurs far more rapidly in the spring in
the north country than it does further south, or an spring comes with a rush in the nor Sparrow is heard singing its rich, clear refrain Fo. spring, that of 1907, we had a heavy fall of snow whil back for several days mition was on, which held the bird of Georgian Bay there During these days, on the shor chorus every morning.
Writing of this species in Alaska, Nelson say, " the coast of Norton Sound this bird is an abundan summer resident, sharing with the Tree Sparrow th d ravines. Wherever thets on the hill-sides and sheltee ed ravines. Wherever along the northern coast a fab
sized Alder patch occurs this hardy species may looked for. On pleasant, frosty mornings at this seasoa he males pour forth their clear, thrush-like whistle." country, from the Magdalen Islands, Newfoundtane auntry, from the Magdalen Islan
The Jum, north-west to Alaska.
the woods and thickets, and about out-buildings. The species has the head, neck, breast and back slate-colored and the under-parts, below the breast, abruptly white and as it flies it shows its white outer tail-feathers. It $\%$
much more com much more common in Ontario in spring and fall than a
other times, for, though some breed southern parts of the province breed, even in the mor the species go to more northerly breeding ground The song of the Junco is a trill much like that of the Chipping Sparrow but somewhat lower pitched.
Our familiar friend the Phoebe is customed haurts again, on the alert for the earlien insects which take wing. This species is one of th fter yerds which repairs and uses the same nest yee

## THE HORSE.

## Hens and horses do not go well together.

There is no excuse for using a poor stallion.
Work the brood mare, but do not overwork her
The curry comb is absolutely essential at this seases
Keep salt before the horses all the time, especialiy Feed regularly through the season of hard wor)
and avoid digestive troubles.
He is indeed fortunate, who has saved the best a his hay and oats for the spring work.

The young colt and the brood mare will do well te Keep the horses' shoulders clean. This goes a long way
them drink too much after being fed, or when owef heated.

Heavy horses at spring seeding would do the wor easier without
sticky seeding $\qquad$
Do not expect two horses to do three horses' wor but rather put four horses on the three-horse implemen
and drive faster

Do not wash the legs of horses troubled with scratche Allow them to dry after the day's work and brush clea before applying any lotion.
Have you the disinfectant, a piece of cord and sharp knite ready for foal
scribed in last week's issue.

Horses are not in keen demand, but the good heav draft mares should be bred this year, if their ownen exper
shrink a little while and the harness. Most horse adjustment is necessary to prevent galls.
More is accomplished by keeping the team going steadily than by rushing for a few hours and idling in
the fence corner for half an hour now and then

Horses which have been heated up during theh day's work should not be stood in a draft at night
The stable requires plenty of ventilation, but withoun

It is always well to remember that the newly-broken and
horse. Working them half a day about is not a bad

If you have a big horse on one end of the doubletree and a colt or a light horse on the other end, it it oftex
advisable to give the little fellow a slight doubletree advantage.
Do not make the mistake of too rapidly increasing the grain ration of the horses when they go to work
Many horses suffer from indigestion by being fed large
mantities of grain during the first few days of seeding, ollowing a long period of idleness and light rations.
the horse should be practically on full feed when seeding The horse should be practically on full feed when seeding
ageins, and so would not have the extra strain caused increased effort on the digestive organs, accompanie

## Lameness in Horses-XIX.

side bones are frequently noticed in the fore feet of any horses. In rare cases they occur in the hind feet, at seldom, if ever, cause lameness when so situated. mune, they seldom suffer. Side bone consists of
onversion into bone of a cartilage called a lateral onversion into bone of a cartilage called a lateral
ertilage. The posterior aspect of the os pedis (the crtilage. The posterior aspect of the os pedis (the
one of toot) presents on each side a somewhat fongs of the os pedis. Fach wing is surmounted the -mewhat irregular quadrangular-shaped cartilage with I somewhat semi-lunar-shaped superior border. These se firmly attached to the wings and are called the oteral cartilages. The lower portion of these cartilages
ure contained within the hoof, but the uper ure containel wown the hoof, is covered onper portion rojects readily be felt and its outline followed by presnure with the thumb or finger over each heel. They requite elastic, yield readily to pressure, and resume heir original position immediately when pressure is emonsion of the foot, but it is generally conceded the hey have no action in this respect No doubt they epand and spread outwards when weight is put upon te foot, in order to accommodate the expansion of the oft tissues that are situated between them, which aused by the weight, and so soon as the foot is lifted epansion they are simply pascive agents being pressed ut as described. They may, however, be considered as active agents in the contraction of the heel, as, when ressure is removed from their inner surface, they sume their natural position in virtue of their elasticity arces the heel into its original shape. Briefly fthey ary be said to be forced to expand when the foot is on ae ground, and that they actively assist contraction 'hen the weight, which forces the frog upwards and otwards, is removed from the foot. It must not be aderstood that the foot expands and contracts upon its
ferior surface, but at the coronet and heels: not orny foot, but the soft parts of the heel and coronets. "o prevent undue expansion of these, the lateral cartieges are placed as elastic sides. The.process of ossifica ton is often a very slow one, often unaccompaified by oflammatory action, causing the animal no pain, hence ay time, where well-marked exciting cause be given, as ay time, where well-marked exciting cause be given, as
ard or fast work on hard roads.
Lameness no doubt 'caused by the constricted space (caused by the in'exible sides) causing undue pressure upon the soft
earts in their tendency to expand each time weight is arts in their tendency to expand each time weight is
ut upon the foot. At the same time many horses with Iut upon the foot. At the same time many horses with
Ide bones never show lameness, although continuously sbjected to the ordinary exciting causes, but on account
of the danger of lameness, a horse with side bone should shown lameness or tenderness
The causes of the trouble may be said to be hered itary predisposition and shoeing with high calkins.
It is generally admitted that the predisposition is hereditary, hence it may be considered unwise to breed an animal of either sex if he or she be affected. High heels prove a cause-first, because the shock received by the heels when the foot comes to the ground is trans mitted directly to the cartilages; second, because the pressure upon the heels of the wall is unnatural and
excessive, the frog is prevented from bearing its proper pro portion; third, because they are pulled inwards and downwards by the sensitive frog being pressed downwards while its horny covering being removed from the ground forms no column of support. Direct injuries are often blamed for causing side bone. This may be possible and as they usually exist in pairs, if the cartilage of one
heel be normal and that of the other be ossified, and there be any symptom of previous injury, we may be justified in giving the horse the benefit of the doubt and decide that the trouble was accidental.
Opinions differ as to just when a horse should be condemned as having side bone. The process of thickening, hardening, and ossifying is gradual. Some claim is complete, and there may be reasonable grounds for the claim, as a horse really has not side bone until bone is really formed. At the same time we are of the opinion that a horse in which the symptoms plainly indicate that ossification has commenced should not pass as
sound. sound.

Symploms.-In many cases the symptoms are solely local, in others there is more or less well-marked the foot being first brought to the ground; when both feet are involved, by a shortness of step and want of elasticity of action.
to press upon the carty deposit, it is generally necessary and elastic, but when diseased they gradually lose this character, becoming hard, unyielding and enlarged. In clean-limbed horses the enlargement can usually
be noticed be noticed, but in the hairy-limbed classes mality, and even in a clean - limbed abnorwhere any suspicion exists it is safer to handle. The disposition of bone may be uniform, involving the whole substance of the cartilage, or it may be in isolated spots, either at the junction of the cartilage to the bone anteriorly, or involving the posterior border first. In mecoming enlarged and hardened until ossifiadually completed, when they become entirely unyielding to pressure and more or less altered in outline. Treatment- It is doubtful if any treatment is menced it cannot be checked. The advisability of hastening the process by counter-irritation as blistering or firing is very doubtful. The removal of the deposits In cases where lameness is extreme, the operation neurotomy by a veterinarian may be justified. This consists in removing the nerve supply to the part.
It is well to bear in mind that, while the condition in

many cases does not cause lameness, the horse's gait will lose that elasticity so essential to good action. In heavy lighter classes it is of great importance, not only is a question of soundness or unsoundness, but of the use fulness of the horse and safety of rider or driver

Whis.

## LIVE STOCK.

## A Few Truths About Pigs.

ere following brief references to swine managemen bacon factory in Britain, and were published in the Live Stock Journal.. Much information is summarized in a few brief sentences.
Save the best sows for breeders. Do not breed from young, immature sows. Keep a record of the per Fatten the rattle-headed sow that lies on her pigs. Try another.
When pigs are low in price, it is the time to increas the number of breeders
rapidly smaller.
Avoid scours by keeping things clean about trough and swill tubs.
pig. Aim for a daily gain of one-and-a-half pounds pe pig. If you do not work for it, you will probably no

A wet pen will make a lame hog.
Pigs consume 2 lbs. of water with every pound of corn-if they can get the water.
It sounds contradictory, but it is good advice to fatten the hogs lean.
Quickly grown hogs are by any odds the moet
Fatten is a poor word. Grow is better
The hog is a machine for converting golden cor to golden coin
Put the hogs on the platform scales occasionally You will learn something.
Profit comes not in
on, but in how much we can get him to eat of a balanced ration.
A larger increase of weight is obtained for the amount of food consumed in the early stages of fattening tha in the later stages.

## Feeding Market Toppers

Maple Shade Farm, in Ontario County, has long been noted for its high class Shorthorn cattle. But pure-bred stock is not the only choice product this farm is capable of producing. On the farm, south of the main buildings, is a barn with stable accommodation for about twenty five head of stock. This stable is usually used for winter feeding of cattle, and the past winter twenty-two grade Shorthorn steers have been fed. By the first week in April these steers were finished ready for the block
There was not a cull in the stable. The whole lot were uniform in size, similar in color and even in fleshing steers are a pleasing sight to any lover of beef cattle, The owner, W. A. Dryden, is a judge of beef cattle and can see in the stocker the appearance and quality of the finished animal. He knew last fall when selecting the steers, to fill his stable, from a lot of seventy-three,
about what the animals would do with good feed and care. He has not been disappointed. Every anima purchased has turned out to be a good feeder. The transformation from the stocker to the finished stage has been brought about by feeding regularly plenty o care ordinary home-grown eed, together with good gain was about 300 pounds, and the finished animal would weigh around 1,300 pounds each after about 150 days' stable feeding.
Successful feeding is made easy by having good
stuff to work with.' But choice stockers have failed stuff to work with. But choice stockers have failed
to make satisfactory gains when in the care of some to make satisfactory gains when in the care of some
feeders. Not only does Mr. Dryden select good stock but he keeps a good stockman to do the feeding, and forms the combination seldom fails to bring results. Siage matured corn is preferred for ensiling. Silage and strew are mixed every day, and each animal gets about a bushel of this feed night and morning. At noon the
steers are fed whole turnips and mixed hay. Salt is given twice a week. 4 A half-bushel gof turnips is fed each animal daily. Water is before the cattle, but they are turned out for exercise twice every week. When the steers are first stabled, their ration consists main, but gradually the amount of grain is increased as the steers become accustomed to stable conditions. The limit is three-quarters of a gallon of equal parts of ground wheat and oats, fed twice daily. This ration has proved very satisfactory. The wheat that was sed had sprouling
in the field, which rendered it unmarketable for mill purposes. Wheat is considered a valuable fead and gives good results, when mixed with oats, for fattening
cattle. While the silage may give sufficient succulence to the ration, it is believed that the feeders make more
rapid gains when turnips are fed, and it is easier to keep the stock in healthy condition. Both silage and roots are valued highly. During the time the cattle were in
the stable, each consumed probably 300 bushels of

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The stationary
A and C with then put in plac which forms the
in order to ad by order to adm
iron clam
iron three-eighth way inside. back from
It raises It raises up pleted and read a a timber or any
8-inch spike with 8-inch spike with
spiked to a $4 \times 6$ spiked to
the cemen $2 \times 4$-inch scantlin in Fig. 3. This is
with a nut and w through the scant of the top piece better satisfact
ever tried. and, as a given a certain ar
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If the Post Of

a surplus, the
seeing some of

The civilian
about Canada's
the man in kha
silage, 75 bushels of turnips, about one-ton of hay, and

The cattle are fed daily just what they will clean up.
By keeping close watch, and feeding By keeping close watch, and feeding according to the appet feding steers throu posibe carry a stable one of them go off their feed.
There is always time in this stable for using the curry-comb. Not only is the appearance improved,
but the stock do better when they are curried day or two. Regularity in feeding along with goory are is considered to be the keynote of the succes

## A Home-made Stanchion.

 Editor The Farmer's Adtocate:As the winter is drawing to a close and the time will soon be here when the young cattle and others will be turned out to pasture, some farmers, no doubt, will be planning changes in the stable equipment. As 1 have made sand than the purchased ones, I thought I should pass the idea on to others. In the early spring, stables are often overhauled, and on wet days throughout the summer and early fall repair work is done in order to have is necessary to help in my explanations. Ay ideas are depicted in the accompanying illustration. The upright parts of the stanchion are $2 \times 2$-inch maple and about $5 / 2$ feet long. The cross pieces are $2 \times 4$-inc maple and 12 inches long.' By boring and chiseling, holes 2 inches square were made all the way through the top and bottom cross pieces at A and C, 2 inches two-inch square was taken out at B and D right at the end, leaving a 6 -inch space between the two uprights.


## A Wooden Stanchion.

The stationary upright was then put in and bolted at A and $C$ with $41 / 2$-inch bolts. The movable upright is
then put in place and bolted at B with a 41 - inch bolt which orms the hinge, the top being left to swing open
in order to admit the cow's head. It is fastened shut by an iron clamp, as shown in Fig. 2 , which is made of
iron three-eighth inch in way insee-eide Thish inch in diamp is bolter and 4 inches each
Tack from the D, 4 inches back from the end of the cross piece by a $51 / 2$-inch bolt.
It raises up or down to open or shyt the stan It raises up or down to open or shut the stanchion,
the bolt acting as its hinge. The stanchion is then con
pleted pleted and ready to bolt into position. It it is spiked to
a timber a timmer or anything solid enough to hold it by an
8 -inch spike with an to -inct spike with a good head and washer. Mine are
spiked to a $4 \times 6$-inch piece of cendr. which. was
the the cement. The top is attached to a securely-fastened
2xt-inch scantling by a knuckle or swi 2xt-inch scanting by a knuckle or swivel bolt, as shown
in Fig. 3 . This is made of two bolts each 4 inhes long
with witha a nut and washer on each free end. One bolt passes
through the scant through the scantling and the other through the centre
of the top piece of better sap piecece of the stanchion. These have given ever tried. They keep the cattle well in their place
and, as a result, they are clean, yet the animals and, as a result, they are clean, yet the animals are
given a certain anmunt of freedom of their heads.
Northumberland Co

If the Post Office Department is able to accumulate surplus, the carriers on the rural routes who have been wallowing through oceans of mud would appreciate

The civilian who passes uncomplimentary remarks
about Canada's soldiers deserves punishment. So does to intimidate a civilian into its, by saying nasty things,

## Our Scottish Letter.

Editor The Farmer's Advocate:
lion, and, judging by present ase. It came in like out like a lion. This has been a memorable winter for
more things than the more things than the war. The severest frosts wer severest snowstorms in March of November and the months witnessed the heaviest winter intervening three had in Scotland for many years. Whe thalls we have came in November, the season was only beginnin Farmers had no objection to the hard weather exning lifted, and many tons whose potato crops had not been any injury to be dons were lost. It was too early for are always beneficial to plowed land land and frosts then was the scarcity of labor and the difficuly getting men to work horses for carting duty January and Febrather and high winds of December Land became soaked played havoc with the situation a matter of fact, when March opened-logged, and as at least six weeks behind as opened, farm labor was year. The consequence is that in place of there being an increased breadth of land under the plow this seesong in that way in prospect that the amount of food raised The severe weather of March has the hills. Had such weather come in Januar havec on have done little or no harm, but the lambing, it would now very near, and indeed in some of the earlier hirsels the outlook is ominous . Flockmasters (28th March) with a situation which will tax all their resources to the utmost. Shepherds are scarce, many having responded to their country's call and joined the colors. Ewes are weak, being heavy with young. Hand feeding is necessary, and indeed indispensable on account of
the heavy snowdrifts, and hay of $£ 10$ per ton. In $£ 30$ a day to bring his flock is costing a flockmaster month opened with a perfect blizzard and there the been blizzards somewhere throughout its whole have In the west during the past three days we have had weather conditions worse than anyone can remember so late in the season.
by the drain made uparal upon the agriculltural intensified the country for war purposes. Both men and matere of have been commandeered. The men are all material and we are face to face with a big proposition. But there has been an enormous waste of material, and the
prodigal wastẽ in the Army has prodigal waste in the Army has been beyond belief.
The Government methods of enforcing economy have become a by-word. There has been a superabundance of official preaching, with no practice, and the reckless waste of resources goes on incessantly. Farmers have been preached at and instructed until they have become
a little tired of it all. Their work is seasonal a little tired of it all. Their work is seasonal; they have by a great labor scarcity, and aldoy are handicapped
posed to become sullen or to " kick.. like is a little bit more uniformity in the Government The farmers' hay of season and co-ordinating economy for the Government at about 1916 was commandeered are now fortunate enough to have something those who after Government requirements have been met over getting from $£ 10$ to $£ 12$ per ton for the refuse of their
crop. It it in the san crop. It is the same way with horse-buying-it is, in
fact, the same way with everything required by the drmy. There is muddle and lack of organization, duplication of effort, and ill-regulated control. One reviewing and dwelling in thought upon the splendid
silent achievements of the Navy. But enough of all
and I may be pest in every line, element of egotism. Alone among which has in it an in Great. Britain The Scottish Farmer has exerted itself to aid in Red Cross work. First of all, through sufficient to provide "Margaret" raised more than Sufffcient to provide and endow a Scotish Farmer bed was the response to this modest proposal that suraging suggested that the readers of "The Scottish Farmer" the wounded at he fron Ambulance Car for the use of of Directors of the company which owns the paper each. The list was onened with a donation of $£ 10$ came pouring in in all sorts of sums March. Money and now at date of writing a sum of $£ 1,050$ has been
raised. Two Motor Ambunce $C$ a through the Scottish Committee of the British Red a Wolseley, admittedly the hest British car; the other the market; and a third car will be ordered imade car on As the Editor and chief promoter of this scheme naturally feel gratified at the splendid response.
shows how hearty farmers can be it a movement which shows how hearty farmers can be in a movement which Councild and members of the Clydesdale Horse Seaciety, to the Relief of the Agricultural Allies, fund. This was ties, and observe, it was not taken out of the Sorietry's
funds, but subscribed by the members. The Council
voded yoted $£ 250$ out of the funds mermbers. The (ouncil cour purchase of Clydestale fillies for the devastated
countries when the opportune time for helping these
countries has arrived. Unfortunatel the time is not

March is the month of the Stallion Shows. on the first and show of Clydesdale stallions probably the best spring The supreme champion of the show was the 25 years. old Bonnie Buchlyvie for which Mr. Kilpatrick, Craigie ham Harbor dispersion in October guineas at the SeaChallenge shield, having won the Ca won the Brydon a three-year-old, in 1909. The reserve was $W m$ when lop's first-prize three-year-old, Dunure Kaleido Duna very fine, well-balanced colt, champion at the Royal world-famed Baron of Both horses are sons of the there was a prolonged Buchlyvie 11283, about which end of that lawsuit, and to wind up a legal in the ship, the horse was sold by public auction for $£ 9,500$
$H$ His the first were prominent at this show. They won all old being Dunnre Indepsendes, the first-prize two-yearyearling a colt named Botha, owned by hirst-prize Birkenwood, Stirling. The two by James Gra selected to travel the district around Glasgow in were were of the same line of descent-Dunure Footline, the Purpose the go by Dunure Footprint, and Dunure In the aged class first prize went by Dunure Stephen. second to the champion of 1915 , ohn Samachlywe cross Radiant, by Apukwa. Mr. Pollock's Royal Fern horse fird, and George A. Ferguson's Phillipine a prea 2,300 guineas. The was bought at Seaham Harbor for Buchlyvie. The fifth horse ware both by Bonnie Baron of Buchlyvie, and the sixth was John P ower, b Foo, a son of Baron's Pride, and own brother to B A ess. The famous champion mare, Harviestoun Baron vie. The same line of breeding, that is Baron of Buchly Dunure Kaleidoscope wist the three-year-old class Kismet, a very grand horse and the jom Escelda, Craigie Hallmark, and Dunure Dunure Recollection, and Plato. In the two-year-old powerful Dure Independence, a strong, well-colored and Mondego a Buchlyvie; and then came big colt, both sons of Bonnie Purpose and Dunure Walke
there wherdeen Show followed a week later when leaders were ne display of powerful big horses, The George A. Fergusme the same line of breeding. big six-year-old horse Gallint Sion honors with the of Revelanta, a particularly well-balanced breeding
horse. with a capitlechie led the junior championship The series
March. High of sprices bull sales was completed in breeds. A two-year-old Highland three native Scote of Camusericht at oban made the record named Baron to Miss Hall of Tangy, Killean, Kintyre. At Castle Douglas a Galloway yearling bull made $£ 100$, his buye average price of Biggar, Chapelton, Dalbeattie. The was $£ 292 \mathrm{~s}$. 1 d . Shorthorn sales at penrith that sale mingham saw high prices also. At the former a Bir rising two years old, bred at Haugh of Ballechin in
Perthshis Westire by . Rose, but owned by Mr. Robinson, to South Ameericar, made Sale of young Ayrshire bulls was held when spring n average of $£ 1616 \mathrm{~s}$. 4 d . and the highest price

Argentine exporters have thrown a bombshell into the camp of both Shorthorn and Aberdeen-Angus subject to the tuberculin test, and a they will only buy animal will stand the test before shipment. One can hardly blame the exporters. They have rot their fingers badly burnt over purchasing bulls at high one case a the recorded charts of tested animals. In chart seemed all right and reacted. The . In due time he was again tested and the bull was sold at a later sale in another markery. town for 120 gnineas. No guarantee or chart was published about him then. The attitude of breeders unfortunate. Had the tubercuin test has been most method of testing and separation, when it wang's made known, and evidence in its favor from Denmar had been conclusively shown, the condition of the herds would hountry in so as tuberculosis is concerned would riave been very different from what it is. Herds adopted can now show a clean health bill where the simple expedient of separating the calf even its dam at birth has been followed it is admeated from stock. The worst fast improvement in the health of the stock. The worst feature of the character of our home
breeders not care what evidence may be adduced from They do That insular prejudice is proof against the convictio anywhere else, but Great Britant of Denmark or folly and such patriotism makes. Such wisdom is is a sufficiently mar burprising fo foct than Hackney show. scares and realities two weeks should have been filled up in the life of the Metropolis of the Empire with Hed up shows. During the last week in Februare with the Shire-
Horse Society held its annual show Horse Society held its annual show, and a successfil event it proved. In the first week of March, the spring
shows of Thoroughbreds. Hunters, Riding Ponies, and
Hackney's were beld. Then

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ronized．I only saw the last，the Hackney show，which continued two days．The results were a sweeping Mathias 6473－owned by Robert Scott，of Thornhome， Carluke．His son King＇s Proctor 11102，a former London champion was the winner of the Produce－group
prize for stallions．He was himself winner of the Produce－ group prizes for both mares and harness shows．Some very fine harness horses were exhibited after him，and there are a sufficient number of enthusiasts to keep
the Hackney flag flying in spite of adverse conditions． the Hackney flag flying in spite of adverse conditions．
Death has of late been very busy among agri－ culturists．John Marshall，the head of the noted Maybole，has passed away．So also has Wm．Bone

## Fewer Ticks and More Sheep

Would you kindly inform me through the columns of your paper what would be a good solution to destroy
ticks on sheep and lambs and how and when should they be dipped？I thought of dipping immediately after shearing，and as I am only a beginner in the sheep business，I should appreciate some advice regarding what to use and how to use

Shepherd．
The need of this country to－day is for fewer ticks at handsome prices，as all market quotations show but the supply is not equal to the demand．The wooled tribe has decreased in numbers in the last decade， and shepherds who have retained their breeding animals
find themselves in possession of $a$ very remunerative class of live stock．Many of these sheenmen heve fail to put into practice methods that will still further increase their revenues and maintain the good quality of their focks．Body pests，to which sheep are subiect， still persist，and the almost universally－known sheee
tick is perhaps most common of them all Lice tick is perhaps most common of them all．Lice and
ccab are not unknown，but the tick itself ffects sufficient loss to warrant remedial measures being taken with greater vigiliance．Not only is the thrift of the flock affected unfavorably，but the clip of wool lacks in strength of fbre and in weight of flecee，when the body
upon which it it arows is tormented by
licks and浆加 which it grows is tormented by ticks and lice shepherd．The first requirement is a desire supported by a determination to trat the sheep for pests．The material and equipment are easily obtained and can be applied with littie inconvenience，when once the owner of a fock，larye or small，makes up his mind to
practice the precautionary measures that will save frim dollars and increase the quality of his sheen sand their products．Dipping the sheep and lambs in a pecially prepared lipquid is the remedial and preventive treatment practiced in all countries．Let us study a few or the detalis connected therewith
there are several makes prietary dip that has an established reputation for this purpose is satisfactory．Formerly，mixtures were prepared at home from lime and sul phur，and other substances， ，ut the most successtul shepherds of this
decade advise azainst anythinc decade advise against any thing but the proprietary dip
which can be purchased from most drugeits and dealers at a reasonable price，and which is effective while not in a reasonabie price，and which is effective while not container，and in such plain language that no one need go wrong．

Equipment
The matter of providing suitable means of dipping the sheep is not so easily settled as is that regarding
the dip itself．However，alitle invenuwty wil the dip itsel．．However，a little ingenuity will quirkly
conquer any obstacles in this direction．A small flock of 8 or 10 sheee and their lambs could be treated quite successflly in a large tub，such as half a hosshead． These can often be procured from a a grocer or any dealer
selling molases．
They should be spoken for some time
 a flock as mentioned above would not disturb or damper the ardor of a good shepherd．Two men are，of course required．The sheepp should be lifted and placed on her
 complete immersion is usually，sufficient．or For scab the sheep，alt except her head，should be left inmersed
for at least two ninutes．In order to conserve the
 be arranged at one side of the tub on which the sheep
or lamb can be placed when taken from the dip．When dipping on a modest scale，it would be practicable
 as near as possible to full measure．This system of
dipping is also ituit dipping is also quite applicalle for lambs，or for sheep
that may be introduced into the fock from time to One of the most fertile sources of infestation and discase is hronph the incoming of rams or sheep purchased
fromilil－manapect fouls．$A$ tuby or snall vat can be






## A Dipping Plant

 ankk A Aecond gate at the other end of the pen wither place An even more extensine a pophart rain take its




Shelloch Park，Gervain，in the same section of Ayrshire， one of the most enterprising farmers in a district where
such are not few．I．Arres Mather an exceptionally capable farmer in Nairn and Inverness，died after a singularly honorable career，and finally there may be named George Hendry，Secretary to the North of scoltural Cotege of Agriculture and formerly Agri－ Hendry was a very capable and discriminating critic of Aberdeen－Angus and Shorthorn cattle，and a re－ cognized and trusted judge of the former．He was a
favorite in the brotherhood of journalists，and will be greatly missed in the agricultural life of the north of greatly mi
Scotland．

Scotland Yet．
bottom．When builaing a plat tween the boards should be smeared with hot tar a oard at one side few sheep，a trough with a drippin the sheep are laid on the board，the wool this is used the liquid poured on．The lambs can be dipped in the scab is prevalent，the equipments in countries where demonstrate the importance attached extensive，and demonstrate the importance attached to dipping by plant alone had a capacity of two flocks per day，on 7，200 sheep in 12 hours．
will answer the purpose very well．The dimensions，say 9 inches wide at the bottom， 2 feet 6 inches at the top in order that a smaller quantity of dip will suffice At the perpendicular end of the tank a chute should be attached and kept well greased so the animal can be forced gradually down until it drops or is plunged into the liquid．It will at once climb up the gangway at the other end，where a gate could be hung，leading into a small dripping pen．This should be so attached
to the vat that the drippings may run back into the


Dipping Sheep in a Tub．

When to Dip
Generally speaking，the flock should be dipped twice each year．Once in the spring shortly after shearing，
if the weather is warm，and once in the fall befor if the weather is warm，and once in the fall before be dipped in the spring and the handling connected therewith is liable the vat abortion．If possible，it would be is liable to cause pone the operation till wall have lambed．A few days after shearing the ticks will be found mostly on the lambs，and a thorough drenching of the pest and cause the flock to more than would be possible when tormented by thog， destroyers of the shepherd＇s profits．Another bath about 10 days later will insure the destruction of any vermin hatched from eggs since the first dip and guaran－ tee a season＇s freedom from lice and ticks． infested with vermin that they fail to gain become so and thrive，and they actually go back．During some warm winter days it might be practicable to part the fleeces and pour on the warm preparation，after which the sheep can be crowded together in a warm stall until they are dry．This，however，is not the proper method to pursue．The flock should be dipped before the weather
becomes too cold and when it can be done theroughy

## How to Dip．

Any good shepherd will dip his sheep properly， As previously stated in this article，proprietary or commercially prepared dip will be most satisfactory． When a dip is used which is made from coal－tar products， and this can usually be detected by the odor，it is wise
to use soft water．If this is not available，a little con to use soft water．If this is not available，a little con－
centrated lye may be added．However，soft water an centrated lye may be added．However，soft water can
usually be obtained from off the roofs of the buildings during a shower or it can be drawn from a near－by creek，and it will be worth while．Attention should be

A Small Portable Dipping Vat．


 anie are to ticiet，and the the



 will rub themselves against


weather. A good shepherd does not have to be ad-
monishhed with regrar to do diping; he is aware of the manvantages and the now almost absolute necessity of
ard practicing these precautionary and remedial methods

## THE FARM.

## A Farm Water System

Editor "The Farmer's Advocate
F have seen several enquiries in your paper re
ferring to water systems on the farm. I have recently installed an air-pressure system that supplies water
to seventy-five head of cattle and horses, and the
dwelling house. The engine, pump and tank are
placed placed under the approach to the barn, which was made frost proof. I employed our local hardware
men to do the plumbing and supply all pipe. I had the tank made in Chatham, Ont. It was made of 12 feet long, with a capacity of 1,760 diameter, and 12 feet long, with a capacity of 1,760 gallons. The
water and air are forced into the tank by a double-
geared, bulldozer geared, bulldozer pump with air pump attached, back-geared 6 to 1 . The Tith air pump attached,
cylinder, with a tight and loose pulley by 5 -inch cylinder, with a tight and loose pulley $21 / 2$ by 14
inches, with a capacity of 900 gallons per hour, and a working pressure of seventy-five pounds. The
water is drawn through a $11 / 2$-inch suction pipe from
an artesian well 92 feet from the pump with a raise The air pump is $21 / 2$ by 5 inches, and forces the air into the tank with water which keeps it pure and sweet. to The air pressure in the tank is raised from 15 to 30 pounds, the water occupying two-thirds of the
tank. The water is forced by the air through the stables and to the house, a distance of 350 feet, and is raised 25 feet to the bath-room and hot-water tanko engine. This is more bower a $21 / 2$ horse-power gasollipe think a $11 / 2 \mathrm{H}$.-P. engine would do the work, just as and I think is ahead of the elevated tank,
Kent Co., Ont.
Jobn Buchanan.

## Planning, Preparing and Planting for Profitable Potato There eas seen a great change in the quality and productiveness of the potato since its introduction <br> \section*{Production.}

into civilization by Sir Walter Raleigh doringtion the
latter part of the sixteenth century
From $a$ small watery, insipid, waxy, tuber has been evolved by it it known to-day. The value of the potato as a
food is recognized everywhere. Its composition is
form loud is teogize it a suritaberee food for compossition is ageses in every walk of life, whether employed at heavy
manual labor or working under mental strain.
It manual labor or working under mental strain. It
has a place on every table in some form or other practically every day of the year. A dinner is hardly
complete without the potato. While wheat ia car sidered to furnish the staff of life, the potato is a very close second. Like wheat, it is a food for both man and beast, and lends itself to being prepared for use
in a variety of ways. On every farm and on many town and city lots potatoes are grown for home une, but growing them on a commercial scale is ieft to
those who are located on soil particularly well adatated to producing a large crop of clean, smooth, mealy
tubers. Owing to soil and climatic conditions, it is much easier for potatoes to be profitably grown on se made to grow the variety most suited to the the toclity and prepare the soil so that the tubers will at least have a chance to reproduce to the best advantage.
It costs no more to prepare the soill cultivate nlant It costs no more to prepare the soil, cultivate, plant
and spray a four-hundred bushel crop than it does a one-hundred-and-twenty-five bushel crop, and yet the average yied in Canada is below the latter figure,
while the possible is consideroby Few trops respond as readily to proper soil conditions and good cultural methods as does the potato. In
order to insure large yields an abundance of available plant food must be applied to tive the plants a star and force growth th his should of loilowed up
by an eflort to check the ravages of plant disesest The potato crop is is an important one to Canadian agriculture, and its propagation is worthy of more
study than is given to it. The heavy loss sustained by growers in 1915 should not deter them from plant-
ing the usual acreaze this year.

## The Varieties to Grow.

The grower is obliged to pay some attention to
the quality and type of potato that he grows
 than they were a few years ago In order to ootain
the highest price, the desires of the consumer must be catered to. If the market demands. a round potato, a vatriety of that shape is the kind to grow.
Some markets give preference, to a variety of a certaiis shape and color, some to another. For instance,
the Deleware varity in the Delaware variety is the hiighest-priced potato on
the Toronto market, while in London the Dooley is
net
 ine average size. Potatoes uniform in shape, possess-
ing smooth skin, shallow eyes, freedom from disease,
 cooking qualities sare infuenced somewhat by the conThe number of named varieties are legion. There
are altogether too many for the good of the potato-
growing inder are atrogether too many for the good of the potato-
growing ind tion
tricit a quastry. It is dificult to secure in one disand size anantity of potatoes uniorm in shape, color
is lesest thansuently the price offered by the dealer
 best results inll the decide on the variety that gistrict, and all grow that varies
Poits urriving at a decision as to varieto consideration when
 maturity, resitance to disease, and the market re-






 Carmans, Deiulure and Gren Mountain varerities rae
among the minst popular of the late potatoese The
are white in color, somewhat round and flattened in are heavy yielders and good cookers. The Rural New Yorker is also white in color, and usually grows a little larger than the other varieties mentioned, but has a tendency to be hollow. The Dooley is a favorite in Middlesex County. It is a white, fairly thick, oval potato with a medium number of shallow eyes. It ariety grows a purple stalk bearing a purple flower. The Davies' Warrior is a white potato with a smooth surface, shallow eyes, short, oval and flattened in shape. long season the latest varieties grown and requires a long season to mature. In districts to which it is Empire State is an old favorite which is white in The long and oval in shape with fairly shallow

Improving the Quality and Yield of the Potato. Naturally the soil on which potatoes are grown makes a considerable difference to the yield and quality, the lighter soil usually producing a dry, mealy potato. past in selecting seed, as too frequently the engh in the that were left in the bin after the table had been supplied through the winter were used to reproduce the inext crop. The best way of increasing the yield and uniformmity of the potato, is by seed selection a marked increase, both in practiced this have secured crop. Possibly the best method is to 3elect tubere of the desired size, true to variety and type, from hills that are the most productive. This must of necessity be done in the fall, but this spring a start weigh from five to eight ounces. By selecting from the bin each year tesults would soelecting from This could be carried farther, and the most vigorous plants in the field marked during the growing season and then these hills dug separately at harvest time and the most desirable tubers saved for seed. It has been claimed that by hill selection the yield may be doubled crop will gradually become more uniform in size and shape and the yield will be larger. An increase of thirty-eight bags to the acre has resulted from one to practice the tuber unit method which is the trouble of pingle tubers. which are cut in from one to two-ounce sets, and the pieces planted consecutively in the row The weak plants are eliminated and at digging time the product of each tuber that was planted is kept and saved for next year's planting. In this way the entire
crop may soon become the product of one potato. crop may soon become the product of one potato.
True, this work takes considerable time but the results warrant the effort being taken.

## Soils and Cultivation.

While it was previously stated that potatoes are
rown on practically every farm under all kinds of soil conditions, they do best on a deep, warm loam well On cold, stiff, heavy clay potatoes have a tendency to be soggy and rough. The sandy soils are suitable for growing potatoes so long as the fertility lasts. Soils that give the best results cannot always be secured, put in condition so that they will produce a good crop of tubers. A large amount of moisture is required
throughout the growing season to produce the maximum crop. If the supply is retarded for any length of time growth appears to be checked and the crop never fully
recovers. While moisture is essential the crop will not do well on a cold soil where the water level remains near the surface. Under-drainage is necessary to carr
off the surplus water. Where potatoes are grown on a commercial scale a
rotation of crops is planned, but on the average farm rotation ol crops is planneg, is grown the potatos are
where only a small acreage is
usually planted in part of the root field. It has been found that clover is a good crop to precede potatoes,
as it greatly improves the condition of the soil and adds fertility. When a crop of clover, or even a clover
stubble, is plowed under and thoroughly worked it puts the land in excellent tilth and the decaying roots furnish
organic matter and tend to keep the heavy soil from becoming too compact. In some districts the potato crop follows fall wheat with good results. After
worked in order to destroy weeds which saves hoeing the following year. A grower must be careful from injury by the white grub. Where is danger troublesome a short rotation of crops should be followt is If possible it is a good plan to manure the potato land in the fall and plow it under, as large quantities of fresh stable manure, while supplying the plant-food con-
stituents also produce a condition in favors the growth of a condition in the soil which largely overcome by fall or early winter applications If it is absolutely necessary to apply the manure in the spring only that which is well rotted should be used. be a fair application tons of barnyard manure would be a fair application, although some growers apply as manure tends to produce a large crop of coat of good not well to rob the rest of the farm. Clover and barnyard manure with good drainage will put most soils in fairly good condition for growing potatoes. Both nitrogen, phosphoric acid and postash to the adding nitrogen, phosphoric acid and postash to the soil be-
sides increasing the supply of humus which soil more retentive of moisture.
The potato is a fairly heavy feeder and it is estimated that a three-hundred-bushel crop of potatoes will move from the soil about sixty pounds of nitrogen, thirty pounds of phosphioric acid, and one hundred and five pounds of potash. It is frequently found to be proit is necessary that every farmer experiment far in order to find out the fertilizer that is needed on hi farm. Potatoés draw heavily on potash, but a this year. Althour this substance is out of the question ashes their use for the potato me secured from wood owing to their alkali nature which is claimed be avoided a scabby tuber. Sulphate of potash, if it could be secured, is preferred to muriate, as experiments have Complete fertilizers in the proportions the plant is plant lood constituente are on the market and in many cases to require them results. These fertilizers may be applied in the good by the fertilizer distributer attached to the potato planter, although some growers prefer to sow the fertilizer broadcast early in the spring so as to thoroughly
cultivate it into the soil. In preparing the soil
must use his judgment. If his soil is very light the grower avoid plowing down coarse manure in the spring as it has a tendency to keep the soil too open and porous, while for a heavy soil the coarse manure is advantageous, tubers are more likely to be smooth and even in shal the than if the ground is firm and stiff. Where the soil has been plowed in the fall and manured it is necessary to plow it again in the spring and give frequent cultivation to keep the weeds in check and the ground in good and the ground is not plowed until spring, as is somed and the ground is not plowed until spring, as is some-
times the case, the grass may be allowed to grow up times the case, the grass may be allowed to grow up
through the manure until the time of planting then the potatoes are dropped in every third furrow at the time of plowing and the ground thoroughly worked. While it is not to be recommended, as the soil is not some soils sufficiently below the potatoes. It is not loosened plow the sod a few weeks before planting and thoroughly work it. If the land is lacking in humus the practice is frequently followed of sowing rye in the fall and allowing it to grow the following spring until potato
planting time, when it is plowed down This treatment produces clean, smooth potan worked. hard and fast rule can be laid down for preparing the soil. The main point to remember is that potatoes do best if the soil is thoroughly worked to a fair depth, planting, although this is not so essential with before planting, although this is not so essential with adlight
soil as it is with heavy claỳ. Potatoes for Seed.
Owing to the high price of potatoes this spring there potatoes or cut the sets as small as possible and still have one eye. However, we believe it would pay to
select good seed if possible. While the select good seed if possible. While the small potatoes taken not to plant the small ones the following to be Planting the small tubers two years in succession woul have a detrimental effect on the crop, while selecting crop. The seed for this spring should have been selected


Good Seed from a Pit.


One-man Planter.


Two-man Planter.


Potatoes Badly Affected with Scab.
They should never be planted without being treated for disease


An Undesirable Type-Rough and Deep-eyed.


Cutting by Hand.


Using a Machine for Cutting Seed.


The Type of Tubers to Select for Seed.

place to prevent sprouting. When the potatoes sprout take from the tubers both plant-food and moisture and
leave the sets for leave the sets for planting in a weakened condition
whichl cannot possibly give the same which have been properly stored. Even potatoes which have been stored to prevent sprouting and yet have been handed over furing the winter do not give
as strong plants as when they are not handled. Potatoes are frequently stored in a pit or a cool, dark cellar planting. They are then taken to the barn and spread out where they will have free circulation of air ove
them without being in the direct rays of the sum strong, green growth starts from the eyes instead the slender white growth produced in a warm cellar injured in handling and the tuber has enough to be of any plant food or moisture by excessive previous to planting, consequently a stronger and quick-
er growth is secured.

## Potato Scab.

This disease is universally known and causes considerable loss in some districts every year, If scab is
noticed at all on the potatoes they should be trated before cutting for planting in order to prevent the berore cutting for planting in order to prevent the
propagation of the disease. An effective method of soil treatment is rotation of crops which avoids planting a susceptible crop on the soil for a period of six or seven
years. It must be remembered that the years. It must be remembered that the disease may be
produced on beets, carrots and mangels potatoes. Alkali in the soil is mangels as well as on of the fungus, while acidity is green crop and good drainage assist in decreasing the amount of scabby tubers. The use of lime, ashes or manure from stock which have been fed on potatoes affected with scab should be avoided. Treattent for
potato scab consists in immersing the tubers for potato scab consists in immersing the tubers for
two hours in a solution of one pint of formalin in thirty gallons of water, after which they should be put in clean sacks or bins that have not contained scabby in clearers.
This treatment should This treatment should be given before potatoes are cut as it is claimed that formalin applied to the cut surface
will weaken the germination. Corrosive may also be used for destroying the scab. Four ounces are and for a thed in four gallons of hot water and allowed to gallons. The tubers should be soaked for up to thirty half hours. If corrosive sublimate is used it must be remembered that it is a rank poison and any potatoes be fatal to solution is sufficien or stock. Thirty gallons of either potatoes. These treatments will also control the in some sectisease which is becoming quite prevalent Powdery scab might be confused with the commo in this country and every effort should be any extent prevent it gaining an entrance to our potato fields be planted and if there is he free from disease should eed should be treated as for the common scapicion the may be seen at time of cutting the seed ine potato and dark rings or discoloration should not pe planted as some fungous disease may be wintering over in the tuber seed they plant.

conditions are favorable a plant is to be obtained. cut surface which prevents loss of moisture. Freshly cut seed will soon heat if left in a bag or pile. If plantshould be spread out thinly day as the cutting, the seed the direct rays of the sun. If the seed heats there is plant the weakening the germination. It is a good plan to growers speed as sle land after cutting as possible. Some they claim it aids in keeping the seed in good condition
and increases the The time of plant.
the condition of planting for the late crop depends on better not planted until danger locality. Potatoes are The young vines are tender and freeze easily is past. should be danger from frost, after growth has started the plow can be used to cover the plants with earth to protect them. The ground slould be warm before the potatoes are planted so as to start growth quickly. If there is danger of them rotting or else before sprouting, a spindly stem. The proper time for planting ony have to be decided by the individual on his own firting will From May 20 to 24 is potato planting time in many the bug bate plantings escape the severe attacks of fall fug, but this shortens the growing season, as early
frequently cut the season For late varieties the longer the growing season the
larger the crop.

## Potato Planting.

The distance apart to have the rows, or thicknes eveant in the rows is difficult to state, as there are closer on a rich soil than on Potatoes may be planted about thirty-three inches a poor soll. If the rows are horse cultivator may be used well on in the seas two here will be plenty of room for spraying. Most varietie will completely cover the ground at that distance. In die rows, the sets are dropped all the way from eight average soil abes apart, but with most varieties on the sidered the mos

The proper depth to plant will be regulated somewhat by soil conditions. The surface soil is warmer thives mare rapid growth than deep planting poranting gives more rapid growth than deep planting. For the
early crop, two or three inches would be deep enough the average depth for the late crould be deep enough but four inches; on heavy clay it might be odvis sof is about a little shallower. Surface cultivation may then be given until growth commences. At three or four inches deep, well-prepared soil is usually moist which aids in
forcing a continuous growth. rapidly a contatoes should be planted deeper than that rapidty pot
mentioned.
growers frequently plant in plant in drills, although apart each way. This method permitsout thirty inches cultivation with implements, thus lessening the work
with the the potatoes are usually either slowed acreage is planted, drills made by the ordinary plow, or double-mold-board plow. On a heavy clay soil the drill method is preferred but on a good loam or sandy soil the potatoes may be
dropped in every third furrow when dropped in every third furrow when plowing at planting
time, after which the soil is given surface alt and a good crop usually results. If potatoes are plowed in, it is a good plan to attach a jointer or skimmer to way that a little soil from the land side shoe in such the bottom of the furrow, which gives loose soil for the sets to rest on.
The use of the planter is gaining in favor, as it does
the work in a satisfactory manner and is a labor-and-time saver. There are known as the picker type, the other act iws. One With the former the sets are picked from the seed boo by steel points attached to a revolving wheel and are dropped in the furrow made by a shoe attached to the machine, and then covered by two disks. If the sets very few blank places in the field. The, there will be machine is fitted with cups which carry the sets dow and drop them in the furrow, where they are covered by disks. In order to operate it successfully one man is required to drive and another to see that there is a
set in every cup. Some growers prefer one type some set in every cup. Some growers prefer one type, some
the other. It is claimed that it costs about two dollars less to plant an acre with a machine than it does by After planting, the harrow or disk may be used to
prevent weeds or grass from getting a start and at the same time a dust-mulch is formed which aids in preventing loss of moisture. As soon as the growth is
sufficiently high to follow the rows, the horse or sculper may be used. It is a good plan to cultivate
deenly and close to the last opportunity of a deep loosening of the soil. Sub-
secquent cultivations should be shallow to avoid root injury. It pays to give the crop frequent cultivation
during the growing season. An every potatoes of an early variety should be planted
on evides the regular acreage of the main
crop. An endeavor sh on every An endeavor shor lde be made to prepare the
coil and select the seed the that the crop will have every
soil opportunity to produce a large yield of good quality
potatoes, even if it is only for home use. Seed selection
and careful soil preparation are the fist and careful soil preparation are the first steps toward
insuring a profitable crop. There are enemies of this important crop which must be guarded against. If some of the known potato diseases of ot her countries
secuure a footing in Canada it may result in sesious losss
If every potato grower would carefully select the seed
ased for planting, pay special attention to soil pre paration, and guard against the crop becoming infected or this country would soon be largely increased. potatoe

## THE DAIRY.

## Eastern Dairy School Exam. Results

 The following is a list of students ranked in orde of merit who successfully passed their examinations a after proving their ability by will be granted diploma heese factory satisfactorily this seasong a creamery o South Mountain; Fred Murray, Kemptville; Wright, Mc Dougall, South Indian; J. W. Bolton, OrmondSkconv C IAss Tordiff, Brooklin; J. B. Mercier, Jasper: E. G. Wis W.
 McEwen, West Brook; F. W. Standish, Clarence, W Plantagenet; W. Pattemore, Frankville; A. T. J. Sullivan, Burridge: C. H. Lee, Lindsay; W. G. Davidson, Glasgon
Station.

## Give Her a Second Chance

It is not always well to condemn a cow on one year O. A. C., Guelph, imported ago Pror. G. E. Day, of the horns from England. Among them or milking Short Golden Rose. She looked like a producer, was buit on the proper lines of a dual-purpose cow, and during by followers of the breed who saw her; but during her first year in Canada she produced only to expectations. But $6,000 \mathrm{lbs}$. is a waich was not up cow of the real dual-purpose type and quantity for siderable flesh. However, she was kept in the cond judiciously fed and cared for, and she has recently com for a Shost whicir has broken the Canadian recor 365 days, testing an average of nealy 408 . of milk yielding over 565 lbs , of butter fat. 4.6 per cent. aa any of the cows from the herd it is well to be that they have done their best under favorable conditione accasionally a cow aborts, and rarely, following an Selling the cows for fortice in production id of the disease nor is it standpoint of milk production unless thom th very badly. Seasons of poor pasture and short feed sometimes work against production, but these should crops annual past minimum by the use of soiling coops, rinht and is fed right summer silage. If the con is sometimes better to give the fair cow produce; but il o prove her worth, give the fair cow a second chanc

## POULTRY.

## The Table - Egg Duck.

## Editor

We all know the story about the hen eggs to supply the demand, while the more emough duck laid her eggs at night and in strane modes She uttered no proud quack to mark the spo placea of commerce her wares but seldom upon the shelve unseen, it whise many a flower is born to blus would find champions to sing its prain Runne graceful, little fowl possesses a wealth of merits, th east of which is its modesty, and it is time that orould be given a rightful place in the honored list

Comparisons are not usually in good taste, bu splendid adyan does the Indian Runner show to suc with the hen. You To start at the very beginning as you read to sit, so she goes ahead and lays, paying tho tim, board while she raises her young. After the henual inety per cent. hatch comes off, the ducklings waste They are willing to o eat, so that in ten weeks they are full night having had no set backs due to lice which have no terrors for them. The drakes are now ready for mar ket, and average about four or five pounds-flesb very tender and sweet, a feast for an epicure. From now on, if given the same care as chickens, the ducke
will lay at five months of age, and keep it will lay at five months of age, and keep it up until the
flock has produced over 150 eggs for each duck. They will thrive and remain in the best of health if They only shelter from drafts, a trough of sand and water and a handful of mixed grains night and morning In February feed a mrough the most severe winter cornmeal, some chopped green stuff of bran, shorts, in the proportion of $3,2,2,1,1$, and mout sill veras larger than the biggest hen egg of pure white egge, them, try them your favorite way, and you will have "duckish" flavor, but mild and amply a trace. of Containing less water than mild and amply satisfying richer albumen and yolk, you will find that you need
only two eggs instead of three when malking calkes,
anid
beat ahd the cale will be considerably improved. The Indian Runner eggs regularly command ten cents a dozen over the market price of hen eggs. ing subject to practically With a two-foot fence to hold them, a pail of filfesh. water and feed twice a day, there is no reason why anyone who loves feathered company should be withLut them.

The Medium-Sized Hen Produces the Eggs.
From observation, Prof. W. R. Graham, is led to state that as a general thing. the heavy-laying hen is not the biggest hen of her breed, but more of a generalpurpose chicken, not too large nor yet too small, but iaving heavy-laying propensities well developed. There usually matures early, commences laying morly, eggs consequently does not reach as great size as the slowmaturing, heavy bird does. It is a fact that bred-to-lay Barred Rocks are not, as a rule, as heavy as Exhibition strains. The same seems to hold true of Wyandottes and even of Leghorns. We sometimes bird. As a general thing we believe raise too large matures early will make his owner more money and will suit the market better. The bird which matures n early age will be just as heavy at a certain age a mide maturing brother of the same breed provided that age is that at which most of the birds are bird, killed young, is never plump The slow-maturing rapid-maturing cockerel rounds out at an earlier are and fills the bill just as well or better. Why not then encourage the medium-sized type of hen if she will lay more eggs, and if cockerels from her sell as well on the market and mature earlier, thus making gains more

## HORTICULTURE.

## Producing Cucumber Plants and Making Them Bear

Editor The Farmer's Advoc
Among the early vegetables that command a good o grow, is the cucumber. The one yet not difficult in growing cucs. is to keep them growing, consequently We plant not to plant them too early We plant about the 20th or 25 th of April. Cucs
will take almost unlimited quantities of manure in the field, but it must be given in limited supply in the hot-bed or greenhouse inven its earlimiter supply in we are using more small greenhouses with cold frames either. We mix about one-third well-rotted manure and two-thirds light soil, sifting both before planting
the seed. Much
of seed is used. That does not mean a peed of poriety
germinability or small varieties that are not the right color, with perhaps another qualification of being a good shape pell By all
means get a White Spine. These cucs will means get a white Spine. These cucs, will remain
white, not yellow, in the spines or strips, and even
when they are ripe they will not turn yellow. There is a strong prejudice among housekecerers against be bitter, and pechause they think they are likely to
this season's work we thave is something in it. For
tor of White Spine, and another variety known as Perfece-
tion Forcing. Almost all the seed houses now carry
the White strains, and we can only find that out out by experiment the
We are experimenting still on the field We plant the seed in trays or flats 12 by 24 by 4
inches, filling then a lintle over half full of the sifted
soil and manure in the quantities mentioned alove be littele pockevts formeded in whing wharwise there will
sprinkling. We plant the secd in drills made with a sprimking.
stick, a lath, pressect edge sed down, wirll give made with 2
right size of a trencl.
 When the sted is is the drills, or trench, cover it with
sand, pure siand is what iwe, use Athe presing the
surface with a llock, sprinkle with warm water and
 soil has a good proportion of in firm ground. If the in in onuch the
better, for the samplier the soil the lirger will be the root system deveroped. Yesterday I was transpiant-
ing some peppers and to dav some cauliflower. The
 tap root and very
are the bunchiest
roots were all over hunting fo: , her wond theit Many of the peppers wilted, white the cumiflower ar as stiff and straight as they were lefore moving. Then
there is this advantage in sandy soil, one can water the seedings almost every day without running the ris
of having them "damp off."

Just as the tip of the true leaf appears between
the seed leaves is the time to transplant. Wet them well the night before and transplant in the morning, setting the plants about two inches apart. If yoil
can use trays so much the better. Use sifted soil and can use trays so much the better. Use sifted soil and
manure to the proportion of about three of soil to manure to the proportion of about three of soil to in the trays or bed, then make litle holes about inch-and-a-half deep to receive the seedlings, dig the seedlings out with an old table fork and set them in the holes pressing the soil firmly around the roots Set them so the seed leaves will be resting on the surface, to have the stalks up in the air weakens the plant. If the sun is out bright we cover the plants
with newspapers to be sure they will not wither. If with newspapers to be sure they will not wither. I
they have had enough water and are not very warm, say not above 65 degrees, for the first 24 hours they will not wilt. A cuc must be kept growing from the time the seed is in, for the moment it stops growing it hecomes a runt. It is better to put the seeds in a little later than to have to check them or hold them back. We find every check makes them that When the leaves begin to touch we transplant again. This time if we have them we use flower pots or paper pots, but if not we use the trays. This time
we
give them considerably une we give them considerably more space in the trays, fhe we find that it does not pay to transplant more
than wave done up to this stage. For this trans than we have done up to this stage. For this trans
planting we are not so particular to sift the soil, but pe watch for anything particular to sift the soil, but
coarse in the soil, like old pieces of corn stalks that may have come in through the manure.
After the first transplanting and a few days, gener-
ally two, after watering we take a table fork and ally two, after watering we take a table fork and stir
the surface of the trays not too deeply. This we find


A Tray Ready for " Cucs."




This induces the vine to to throw out hranches, and to to
give it that tendency is a good thing. If the plants
are in trays we take
nto blocks, which is an casy matter if they the plants
n . lines in the trays as they ougt
work the soil. Each plant has then a biock of of soil
about it and will not need to be disturbed very much
when planting in the feclt
when planting in the field. Those in the pots will,
if turned upside down, drop right out, and are better
for not having the Anything in greenhouse or hot-bed work that will
tend toward evenness in development of the should be made use of. We keep the soil in the trants
the same depth
the levelling off with a strip of woond allow the centre to drop down side of the trays and
tray. With all depth evaporation takes place albout the same in cach
tray, and they will recuire about to water on the same day. That is why we. prefer to
plant seeds in trenches, the seeds have cach the same levelope evenly, so that when the largese are ready for
transplanting the smallest will not be so verv much
smaller a furrow where we wish a row of plants to go, plow
turn around and go back up the ing the soil out on hont sides. The rows are five feet

## and put a forkful between each plant, or rather leave spaces for the plauts

 plant anything on top of manure, does not pay tomanure is well rotted. Wie find that the plant the aggravate that condition. hoeing they get pet will only the plants in another furrow plowanure, and then put vines, and ship as piicklers, few the the first show on the are liable
to check growth. to check growth. The mature curs are better picked
early in the morning and plunged into a tub of cold
water before packing. The cucs are ready when the
blossom end is nice and firm blossom end is nice and firm. Our packing the
holds two tiers of 12 or 15 . making per case. The number of dozen is then stamped on
the end of the case. the end of the case.
British Columbia. Walter M. Wrigbt.

The Relation of Precooling to Marketing.
living in the three Prairie Provinces. What people
crease
Pa crease may be, as shown by the next Census in 1921 that there exists, and will exist, but the fact remain of country a large market for tender frut broad expanse tion is who will supply it, Ontario or the United Sues Ontario needs it badly enough, and should states some effort to win it for herself. This can only be ship, and precorough reliable packs, concerted salesman. Ontario growers Then again the price problem. Precooling will aid bulk of the production is diverted from the a large to the Western Provinces the price will be beatter in the East, perhaps, or the returns will be more sotio West than those accruing from shipments to the profit $T$ effect the distribution so all growers will rather than accordin quality of their producta, some extensive organization is necessary of their fruit, trict where tender fruits are grown on in every dio so the returns can be meted out on a pro-rata system.

$$
\begin{aligned}
& \text { The equity of this methed out ou on a prop apent. } \\
& \text { Precooling systematically execenter }
\end{aligned}
$$

Precooting systematically executed by a large organization in the tender fruit districts would ex tend the market wonderfully. Considerable can be and the small the extensive independent growers should get together on this matter in ions, yet they production and agree to precool and ship a certain centage of their tonnage West. That would alleviate the stress east of the Great Lakes and make things more stisfactory
The time has
generall required to consider precooling when the growers are strawberries, but with precooling in connection with it is a different matter. Edwin Smith, manager of the precooling plant at Grimsby, reported at the last annual meeting of the Ontario Fruit Growers' Association that the precooling of cherries has been a suc-
cess, and that Early Richmonds will stand a shipping Thest of ten days near as well as the Montmorency. respond to the treatment and parry. They readily the precooling and shipping of peaches are concerned
it has been demonstrated that the and can be successfully carried on. The difficulty lies in that the California, Washington and British
Columbia peaches are first Columbia peaches are first on the Prairie markets, Niagara District have verified Mr. Smith's reports with regard to the success of precooling. What is required now is a get-together movement. What an rexturired

## THE APIARY.

## Re-Queening

bees, and intends to re-queen all his colocies it will pay him, I think to re-queen all his colonies, it will or equipment but with aring for it, the same outfit will last for several years.
The first move to be made by the beekeeper, who intends queen-rearing on a small scale, is to prepare whis
 mating-boxes, etc., in the winter or early spring before the husy season opens. If he prefers, he can make at
home the queen mating nucleus boxes if he uses care and has the proper measurements, but for the inex-
perienced, I advise buying the outfit from some reliable A small outfit will consist of about two or three
frames for holding queen cages. nulled queen nurseries and hold about thirty-four use of whimber of queen cages must be at hand, the
icles, a number, the seen later. Besides these et tuantity to be decided by the number of queens to be raised, of queen mating nucleus yard when the virgins are being mated to pure drones. of queens must be strong. As soon as the spring opens up start them breeding by feeding them. When the set of combs is strong as desired give them frames of hatching brood. About nine days before it is trime to begin queen rearing, put a queen-excluder between the two bodies. Nine days after place the brood chamber containing the brood or egrs on the stand, leaving the bodies without brood or eggs on the old stand with all the field workers.
taining the breeding quieen. In the meantime, prepare the top bar of a brood frame. Two days after putting the frame of eggs into the hive, take the frame which cell walls in this frame to aid in room. Cut down the With a toothpick gently take the larvae from eggs worker cells and put them on top of the previously supplied royal jelly in the artificial queen cells and then place this frame in the queenless hive in the place f the one removed, which is returned to the breeding stock. Ten days later place the queen cells, which are placed in the special frame and put back into the hive The queens in these cages should hatch in about two or three days when they will be ready to mate. The virgin queens are mated, as stated before, by means of the nucleus box, which is large enough to hold three $41 / 4$ by $41 / 4$ sections. The box is opened at the front end which in this nucleus, and the other section honey are placed brood, from a frame cut into squares to fit these sections When the nucleus box is all ready, about a cupful of bees is taken from the hive that raised the queen
cells and put into the box. A virgin is then allowed to go in by the entrance, which is then closed. When a number of these small nuclei are prepared, they are the entrances opened. The nucleus should be far enough from the parent hive to prevent the bees from distance off the ground to keep the ants out. A some examination should be made about ants out. A final

## What the Ontario Legislature Did

Much of agricultural interest transpired at the
Session of the Ontario Legislatere Session of the Ontario Legislature which has just conregular appropriations for comparative statement, the made without very material change. The estimates, However, include one _or two items of special interest. Fair to assist in clearing up the finances of the last show at which there was special expense due partially tio war conditions. There was also provided a vote of $\$ 1,000$ to assist in the handling of co-operative live stock shipments to the West. As is well known by livestock men, these shipments have in recent years been same time have been handled under the supervision of the Director of the Live Stock Branch of the Depart ment. Owing to conditions which have arisen within proportion of the in recent years, by reason of the proportion of the membership west of the Great Lakes, for this purpose and hence Government during the February Live Stock meetings to assist in retaining for Ontario this very importang trade. It is hoped, therefore, that the work will be not only maintained but developed.
ment, the Department is, of course, spending this yea $\$ 300,000$ from the Federal Grant for agricultural in
struction.

## Changes in the Department.

As a result of legislation during the Session some culture from the administrative standpoint. The
Colonization Branch has been transferred Department of Agriculture to the Department of Lands
Forests to the Department of Lands, Forests and Mines, but was transferred a few years ago. It has now been trans which the Depain in order to participate in the plans
went of Lands, Forests and Mines is working out in connection with New Ontario developin the matter of farm labor. Two other branches which Agriculture have also been transferred, namely the Factory Inspection Branch and the Stationary
Engineers' Branch ing a Trades and Labor Branch of the Department of ministration branches mentioned. While the ad stituted a very large part of the work of the Dever con
their removal leaves culture one of the first, if not the first, exclusively agri-
cultural departments in Cana

Dairy Bill.
course, that which dealt with the payment for milk at cheese and butter factories, which has already been
reviewed in these columns. Briefly recapitulated this
legisla legislation provides columns. Briefly recapitulated this
basis of butter must be paid for on the cheese factories. Cream must or butter fat plus 2 at quality has of its quality, but no definite standard of quality has yet been laid down. The legislation in April 1st, 1917, and that regarding creameries is to be Governor-in-Council by proclamation of the Lieutenant the bill is of an educational nature, but it was received
with a marked cultural Committee was favor. A session of the Agribers. G and was participated in a discussion of th

Dairy Instructors for Easten and Western Ontario conditions in the Dairy Industry and the to the something of legislation along the line of the Bill to stimulate a greater attention to quality and give Ontario products a better standing in competition in the world's markets. One point which was particularly discussed was as to the method of doing good testing. It was one of the crucial points reliable testing was the legislation. While many of the cheese math employed in cheese factories are quite competent to do this, there are many who are not. After careful consideration it was found impracticable to lay down any ment undertook to the present time, but the Departsummer and carry acquire information during the would enable them to be in a better position next winter to make definite suggestions on this point. In fact the Minister stated that every effort would be made through the summer to give the bill and all information bearing general and widest circulation so that there could be a fall and winter before discussion at the meetings next fall and winter before any attempt was made to carry

## Sheep Damages.

Legislation was also introduced by the Minister
providing that henceforth sheep destroyed providing that henceforth sheep destroyed by dogs
shall be paid for in full by' municipal councils. In the past the Act has made provisions for indemnity only up to two-thirds of the value. Municipal councils and in the great majority of cases the revenue paid out on account of the loss of sheep.
Under these circumstances it was felt that it would he no hardship to the municipality, and only an act of
fairness to the sheep owners to allow full damages. Permission, however, was given to the municipality to increase the dog tax if they saw fit or if they found it necessary in order to secure enough money to pay the
indemnities. Another small change was made in the Act to make it compulsory for the assessors to include
ail the dogs in the assessment roll. A fine of $\$ 10$ is now ail the dogs in the assessment roll. A fine of $\$ 10$ is now
made for remission of this duty on the part of the assessor. The bill was received without any dissenting can be done to
in this Province

## Auctioneers' Bill

For several years past owners of pure-bred live stock
have been handicapped in conducting auction sales pure-bred stock. It was usually desired to secure a auctioneer who had special knowledge of the particular breed or breeds being offered. These auctioneers
could only conduct the sales by taking out a local icense in each county in which the sale was held. Legis lation received consideration empowering any person
conducting an auction sale at which 75 per cent. is registered pure-bred stock to take out a provincial
license at a fee of $\$ 25$ per annum, application to be made criticism was heard of this measure, as it was argued, that it was unfair to the local auctioneers. The reply as that it could not do the local auctioneer any harn pure-bred stock and therefore a benefit to the live-stock
industry in general. The bill, however, did not carry. District Representatives.
In the consideration of some of the estimates, the Leader of the Opposition inquired as to the policy of the
Department in regard to dispensing with the Assistant Representatives in most of the counties for the ensuing Representatives in most of the counties for the ensuing
summer months. The Minister replied that it was a
days later. The mating boxes containing laying above method has been tried and used successfully
by several beel by several beekeepers, for the rearing of a few queens one hive and still About thirty queens can be reared from parent colony for winter sufficient bees to build up the your colony or colonies strong in the spring and if care and thoughtfulness is used in the process, success of the metho. In a later article we will describe some Middlesex Co., Ont.,

## FARM BULLETIN.

## The Red Cow's Calves

Talk about excitement! When I came home from the excitements of the city to enjoy the quiet life on with on my travels. Although it was after dark met out to the stable to see the but that I should go wanted to have my supper first I calf. Although I followed the lantern, with the whole family at and side. I might have suspected that there was someput down the enthusiasm of the children calf, but I
properly staged. I was not allowed to see anything untung in front and everyone. The lantern was then the situation at a glance, and I guess I yelled too The red cow had given birth to twins! There they wish to see. I couldn't blame the little anyone would excited. According to those the little folks for being first pair of twin calves that ever. was born on the
farm. But what farm. But what interests me is this further developthat when summing up stheir You may remember the fact that Fenceviether good qualities I recorded aid in farm work by testing the fences egeny give me that I put them in good shape for the summer. Mpring so ver, they almost invariably bear heifer calves that the flock increases rapidly. To these extellent The strain is developin the uniexpected pair of twins. The strain is developing steadily, and some day Fenceties to give them a corner in the herd boo the authori

Unless there is a change in the weather before long the seeding will be delayed so much that we cannot expect much greater production. The rain has was fall plowed is day since, spring began. Land that too wet for plowing. Of course the and even sod is drained, and if we should get a few days ountry is well the work could go on, but at present of dry weather rather discouraging. Still, while waiting, I can feed the

## or Agriculture.

war measure designed to free as many as possible for terfere as little as posibor and at the same time inwork by making possible with the efficiency of the was thoroughly explained in the letter. The situation date of March 31st. by the Assistant Deputy Minder C. F. Bailey, advising District Representatives of this Thd the reasons for it as follows:
dispense with advise you that it has been decided to Representative offices this of Assistants in the District of a few of the larger counties. have probably already occurred to you, but if not, I "II will appeal to you at once.
vacancies first place there are a considerable number of hardly fair to those who the enlistments, and it seems with for men fo young men of military age. The demand work on the fary service and the need for men to anxious to do everything that hat Department is much sacrifice to the work in the for these calls. This I think is quite in yocorg meen this view has benent of the rural districts. In fact District Representatives themselves who have already gauged public sentiment in this regard. appoint anyone to the vacancies which decided not to and to dispense, after the first of May, with the servired of the few others who are at present at work, with the exceptions already noted. I quite realize that this means some extra work and responsibility, but under your very best efforts, and that is all a you to exert expected to do. You should make it a point early in acre profit fields and also the the experimental plots, Drangements are being made to hold School Fairs During the summer months arrangements may be made tent persons assist with the inspectis or other competlots, and also in the fall with the Sction or the children and in other ways we will be very ind In thi wishes and help you whenever possible to make the very best of the circumstances as we find them, and
feel that the results will abundantly justify this decision,

## New Ontario

Important plans were announced by the Minister rence to the deSome few years ago, it will be recalled, a bill was authorising the borrowing of the sum of $\$ 5,000,000$ fo half of this development. Up to the present about which were badly needed in the Non Cond new proposition of the Hon, G, H. Ferguson, utilizes in other the balance of the credit note to assist settlers of stock or for improvements 8500 in an individual case zation cleared. The plan includes a possible organization of creameries and cheese factories and other
methods of assisting settlers. A closer supervision is also to be made in a settlement in the selection of fand that settlers will fill up one township before another is opened instead of being scattered over a large area A commissioner is to be appointed to supervise the whole work who will work through special agents and Crown with agents and others who will be very closely in touch much interest. much interest.

Annual Resolution
agricultural matters and the discussion occupied on ${ }^{5}$ nuithaficultural afteron and evening The resolution called for crecedit yystems, encouragement of farms, cooperative forth, The Opposition in submitting this relition occhated that they:were not criticizing the Department dr Agriculture for its work, but were merely ursing that it go farther. They thought additional step at the Ontario Aodiculsminate the information developed tal the Ontario Agricultural College and other experimen of education as a factor in developing the agricultua espurces. The Government, of course, did not ace the resolution. They inserted an amendment which comiratulated the farmers on the splendid response expressed approval of the work doner production and ment of Agriculture and confidence that the Depart vances would be made in the future. The debate ara participated in by many of the members of both sides The Miveloped a very commendable degree of interest. referred to the Agriculture in concluding the debate partment in developing an interest in done by the De the rising generation and intimated that if the time came when it was felt that further advances in the form Governent agricultural schools would be justified the Government might be depended upon to undertake the both sides in the best of spirit interest which all are taking at the present time in agricultural problems.

| Appropriations for Agricu |  |  |
| :---: | :---: | :---: |
| Civil Government, Printing Reports and Bulletins, Sta- |  |  |
|  |  |  |
| tistics, Miscellaneous............. | . $899,775.00$ | \$ 70,675.00 |
|  |  |  |
|  |  |  |
| Societies |  |  |
|  |  |  |
|  |  |  |
| Fruit Branch. --.................. 64,150.00 64,150 |  |  |
|  |  |  |
| Ontario Veterinary College........ $68,095.30$ 33,893 <br> District   |  |  |
|  |  |  |
| Demonstration Farm............. $\begin{aligned} & \text { 10,000.00 }\end{aligned}$ |  |  |
|  | \$927,563.59 | 3912,453.55 | Note:-the Colonization Branch having been trans. changes for the previous year are explained by the capital expenditures at the Ontario voted last year for and the Ontario Agricultural College respectively. In assisting in the payment of the losses through the explo sion at the Eastern Winter Fair. The increase in the bookkeeping, having been transferred from the Depart. ment of Education.

## Forbes' Shorthorn Sale.

 At the dual-purpose Shorthorn sale of A. $\& G$. Forbes,the herd bull, Bullrush, went to I. C. Bricker for $\$ 460$ This was the, top price of the sale. C. The total for the offering amounted to $\$ 3,320$.

The "Glenhurst". Ayrshire Sale. Considering the times, the sale of Ayshires at "Glen hurst" farm, owned by James Benning, Williamstown Ontario, on April 19, was a success. The "Glenhurst Ayrshires are one of Canada's pioneer herds and noted for producing not only prize-winners but record-makers of milk and fat. There was a large crowd and bidding was good after the first few animals were sold. The stock was in the pink of condition. Auctioneer Phllips M. L. A. of Huntingdon, Que., conducted the sale Thirty-three cows realized $\$ 8.720$, averaged $\$ 264.25$ Three two-year-old heifers 8101.66. Four yearling heifers brought $\$ 387.50$, averaged 896.90. Two young heifer-alves averaged $\$ 62.50$ Ten yearling bulls averaged $\$ 63.50$. Eight young buil calves averaged over 838 . The sixty-two head realized $\$ 0,987.50$ or an average of $\$ 177.25$. The following are the names of animals selling for $\$ 100$ and over, together with the names of their purchasers and the price:

## Glenhurst Torrs Mayor, J. T. Elder, Glenelm, Que... $\$ 385$

 Royal Prince, H. Graham, Hawthorne, Ont Redhills Sally, R. R. Ness, Howick, Que Springhill Sally, Alex. Watt, Lancaster, Ont lenhurst White Ruth 2nd, R. R. Ness.... nowflake Maggie Con Hurley, Nallor 290 Glenhurst Flossie 2nd, A. J. Ness, Howick, Que. Torrs Cony 3rd, R. R. Ness.Glenhurst Torrs Lovely, A. I. Kiess
Glenhurst Queen Floss, John A. McDonald Glenhurst Violet, Hector Gordon, Howick, Que Craigley Pansy 2nd, Geo. Finlayson, Ormstown, Que
White Polly of Glenhurst, Alex. Watt, Lancaster

Glenhurst Queen Floss 2nd, Con. Hurley
Glenhurst Primrose 6th, A. H. Graham, Hawthorne Nellie Ray, E. S. Maynard, Dexter, N
Lessnessoct's's Brownie, E. S. Maynard
ansy, E. S. Maynard
Springhill Agnes, D. A. McMillan, Kirkhill, Ont
Glenhurst Pessara, R. A. McGre

Jean, E. S. Maynard, R. J. Dafoe, Aultsville, Ont Jean, E. S. Maynard
Glenhurst Brown Beli
Glenhurst Lady Pearl, J. R. McLeod, Lancaster
Glenhurst Princess Ena, Geo. Clark, Martintown, Helen B.
Lessness
a
Lessnessock Florar, D. C. Thompaster, Ont, Hudson, Que.
Glenhurst Lady Mary. Ceo Clon, Glenhurst Pansy, D........................................
Qenhurst Pansy, David Tait, Bainsville, Ont
Polly, Wm. Thompson, Athelstan, Que
Lessnowers, Geo. Canhan, Avonmore, On
Lessnessock Annie, R. J. Dafoe, Aultsville, Ont
Glentiont
Ont Belle's Marie, D. A. McMillan, Kirkhil

## Toronto, Montreal, Buffalo

## Toronto.


 cents per cwt. higherer all round, when quality is considered, caused by
receips.s. Steers, 88.40 to
$\$ 9$,
 Alt other classes firm at The total recipts of live stock at the
City nod Union Stock Yards for the
past week were:

| Cars. |  | ${ }^{\text {ion }}$ | Total |
| :---: | :---: | :---: | :---: |
| Cattie | 607 |  |  |
| Hogs. | ${ }_{223}^{439}$ | 11,040 | 11,479 |
| Calves | ${ }_{527}^{223}$ | +1374 |  |
| Horses | 114 | 1,851 | 1,9 |
| The total receipts of live stock at thetwo markets for the corresponding week of 1915 were: |  |  |  |
|  | City Union |  |  |
| Cattle | 367 | 4,983 | 5,350 |
| Shegs. | ${ }^{289}$ | (2,299 | 8,179 |
| Calves. | 79 | 6 |  |
|  |  |  |  |


and Other Leading Markets.
The Davies Estate Clydesdale Sale. Prove large attendance, many from the Westem prices paid for prices paid bre the registered Clydesdales at the dis. Robt Dis in section of the estate of the late Wednesdas , in toronto, on Wed ated to install a confidence in the horse-breeding operations of this country that will have lasting and beneficial results. The animals were an exceptionally choice lot, particularly well bred, and brought out in prime condition. Eighteen mares, from wearin up to 20 years of age made an average of $\$ 320$. sold for over $\$ 500$ each, eight for over $\$ 400$, The stallion Meteor (imp) went the each. Walker of Carnegie, Man for an biv. names of the animals sold the pris 900 . The purchasers are as follow, the price and names of

Lady Loch [32986], J. R. Trotter, Brandon, Mans2835
Mary Hart [35387], W. W. Wilson, Carnation, Princess Avon [35385], W. W. Wilson.................................... Lady Angus, J. R. Trotter.
Thornclife Carniola [33235], G. Brownridge.
 Miss Gartley [32987], H. McGee........................... Miss Sapphire [32984], J. J. Merner, Zurich... Meteor (imp.) [9565], J. Walker, Carnegie, Man Carniola (imp.) [15062], E. H. Carnahan, Meaford. Ingleston Jean (imp.) '[15056], J. Walker..
Miss Lochfergus [32985], W W. Wilson Heartsease (imp.) [15060], I. R Trotter Zarena (imp.) [15063], W. W. Wilson..... Rosalind (imp.) [18822], R. J. Fleming, Toronto...................... Lady Tarbreoch Cedric [2746], R. E. MacKie, Newcastle........................................................ Nelly Lynedoch [2603], J. R. Trotter...................................
Princess Royal [3552], W. H. Crowther, Welland... 17

## Bryant's Dispersal Sale

 W. A. Bryant's herd of pure-bred Holsteins, manyof them R. O. M. and R. O. P. cows, brought a total of $\$ 1,990$ at his dispersal sale. The nine mature coms averaged $\$ 146$, and ten heifers sold for an average of the sale brought $\$ 40$ per Dawn sheep offered a list of animals selling per pair. The following is a
names of
n names of the purchasers:

Fancy King Ormsby, Dalton Sifton, Walkers.... \begin{tabular}{r}
. <br>
\hline 170 <br>
.185

 Zetta Dewdrop De Kol, Russel Bryant............... 

.... .185 <br>
$\cdots .$. <br>
$\cdots$ <br>
$\times 195$ <br>
\hline 155
\end{tabular} roy.... Caume Iryntje, James Burdon, Strath- 15 Woodcrest Corothy De Kol (imp.), A. W. Patter-

son, Strathroy. son, Strathroy.
Woodcrest Jewel Mechthilde, Russel Bryant........................................... .
. 110
.200
160 Laurel Pietertje Goudgeld, Fred Merrick, Strat



Milkers and Springers.-Choice milk-
ers and forward springers, $\$ 85$ to $\$ 1000_{j}$
good cows, $\$ 65$ to $\$ 75$; common, $\$ 50$ good c
to $\$ 0$.
Veal Calves.-Choice calves, $\$ 10$ to
$\$ 11$; good calves, $\$ 8.50$ to $\$ 9.50$, mediumi, $\$ 11$; good calves, $\$ 8.50$ to $\$ 9.50$; mediumi,
$\$ 7.50$ to $\$ 8$; common, $\$ 4.50$ to $\$ 6$; heavy, fat calves at $\$ 6$ to $\$ 74.50$ to $\$ 6$; heavy,
Sheep and at $\$ 9$ to $\$ 10.50$; heavy sheep, at $\$$ to $\$ 8$; culls, $\$ 6$ to $\$ 6.50$; choice yearling ambs, $\$ 12$ to $\$ 13.85$; cull lambs at $\$ 8$
to $\$ 11$; spring lambs, $\$ 8$ to $\$ 13$ each. Hogs. Spring lambs, $\$ 8$ to $\$ 13$ each.
$\$ 11.75$. $\$ 11.75 ;$ selects, fed and watered, $\$ 11.35$;
and
$\$ 10.90$ stags $\$ 4$, less than these prices.

Country Produce
Butter--Butter declined slightly on the wholesales during the week.
Creamery, fresh made lb. squares, 34 c .
to 35 c . creamery solids, 32 c . separator dairy, 32c. Eggs.-New-laid eggs remained staionary, and were quoted at 23 c .
24. per dozen.
Cheese.-19c. to $191 / 2 \mathrm{c}$. per Ib.
Honey.-Unchanged, at 13 c . to $131 / \mathrm{c}$.
Poultry.-Live-weight: Chickens, 18 c Poultry.-Live-welght: Chickens, 12 c ;
to 20c. per 1b.; ducks, 18 c .; geese, 18 c .
turkeys, young, 20c.; fowl, heavy, 18c.; Hides and Skins Hides and Skins.
kins and pelts, $\$ 1.20$ to $\$ 1.2$ Lamb skins and pelts, $\$ 1.20$ to $\$ 1.25$,
sheep skins, city, $\$ 2$ to $\$ 3$; sheep skinh,
country, $\$ 1.50$ to $\$ 2.50$; city hides, flitt

## store $\$ 1.145 / 8$

## northern, No. 2

 Oats-Ontaric oats (in store, Fo$461 / 2 \mathrm{c}$.
1 feed,
1 feed, $441 / 2 \mathrm{c}$.;
store, Fort Willia
Peas. Accordi
No. $2, \$ 1$.
to 81.50
Barley.
Barley.-
malting barl
59 c
59c. to 62 c .
Buckwea
Buckwheat. -
outside, nominal,
Rye.
Rye.-Accordin
No. 1 commercial
according to sam
Corn.-Americ
No. 3 y yllow,
Toronto,
Toronto, feed,
Flour. - Ma
jute bags, $\$ 6.50$
bags, $\$ 6 ;$ stro
bags, $\$ 5.80$.
ing to samp
Toronto $\$$.
Hay. Hay
Hay,
to $\$ 20$;
to $\$ 17$,
Straw
track,
track, Toronto.
Bran. - Per to
Shorts. P
Shorts.-Per t
Middlings. - Per
Good Feed Flo
81.000
Whole

Turnips are b
The wholesale
Thew
The new
freely, and
Carrots, $\$ 1.10$
$\$ 2$ per hampe
pler cer
case, $\$ 1.2$
beets, $\$ 1$
2.50
per bag.
Nold cal
et, the small
ket, the sma
to $\$ 1.50$ per
Old carrot
to $\$ 1.25$ carrots rema
parsnips bringing,
The frist
strawberries
Thursday
selling at 30 c
The second

THE ROYAL BANK OF CANADA


Savings Department at all Branches

18 c ; country hides, cured, 16c. to 17 c
country hides, part cured, 15 c . to 16 c country hides, part cured, 15 c . to 16 c
country hides, green, 14 c . to 15 c .; ca slins, per lb., 20 c .; kip skins, per 1 lb ,
18 c .; horse hair per horse hides, No. $1, \$ 4$ to $\$ 5$; horse
hides, No. $2, \$ 3$ to $\$ 4$; tallow, No. 1 $\mathrm{b1/cc}$. to $71 / 2 \mathrm{cc}$; wool, washew, 40 c . to
4 c ; wool, rejections, 33 c . to 35 c .; wool
 Red clover, No. 1; cwt., $\$ 25.75$ to
 Ifalfa, No. 1 , cwt., $\$ 24.50$ to $\$ 27$; alfalfa No. 2, cwt., \$2 to $\$ 22.50$; timothy, No
li, cwt., \$12 to $\$ 14$; timothy, No. 2, cwt.

Breadstuffs.
Wheat.-Ontario, No. 1 commercial,
to $\$ 1.02$; No. 2 commercial 81 to 81.02 ; No. 2 commercial, 98 c . to
$11 ; \mathrm{No}$.
feed wheat $\mathbf{c}$ commercial, 95 c . to 97 c . store Fort William)-No. 1 northern 1.145/8; No. 2 northern, $\$ 1.137 / 8$; No. 3 Oats.-Ontario.
Oats.-Ontario, No. 3 white, 44 c . to
45. commercial, 43 c to 44 c . Manitoba 46 1 feed $441 / 2$ c.; No. No. 1 feed, $431 / 2 \mathrm{c}$ c., , in store, Fort William.
Peas.-According
No. $2, \$ 1.60$; according to to samp outside to $\$ 1.50$. malting barley, 62 r. to 63 c .; feed barle Buckwhea
Buckwheat. - According to freights
outside, nominal, 69c. to
P0c No. 1 . -ammercial according to sample, 85 c . to. i . rejected No. 3 yellow, 85 .; ;
Canadian (track Flour, - Manitoba first patents, in
 ing to sample, $\$ \$ 1.15$, to $\$ 4.25$, , track
Toronto $\$ \$ 4.30$ to $\$ 4.10$, Hay and Millfeed.
Hay- - No. 1 , per ton, best grade, $\$ 19$
to $\$ 20$. No. 2, per ton, low grade, $\$ 14$
to $\$ 17$
 rack, Toronto.
Bran.
Shert.
Sher ton,
Per ton
\&
 \$1.70. Feed Flour.-Per bag, $\$ 1.60$ to Turnips are Feruits and Vegetables. and have advancecoming very scarce,
the whoc. per bag on Thee new vegetables are coming in Carrots, , 11.10 are selling as follows:
$\$ 2$ per hamper dozen large bunches;
 per bag.
pold cal
poll
ket, the sage is just about off the mar
to $\$ 1.50$ per quantity left selling mar Old carrots remain stationary at $\$ 1.10$
to 81.25 per bag, according to quality parsni.25 per bag, according to quality;
The bringing 80c. to 90c. per bag.
 selling at from Ten per quessee, and and box. and
The second straight car of Californi
 week ago). It is of choice quality,
and sells at $\$ 4.25$ to $\$ 6$ per dozen
buncthen bunches, according to to quality per doze size.
Florida tomatoes are showing a so tendency, and now sell at $\$ 3$ to $\$ 3.5$. per six-basket crate Oranges vary in price, according to size. smand sizes, which are in greater high prices; while the large sizarce, bring
The Navels sell Mediterranean Sweets at $\$ 3$ to $\$ 3.50$

## Montreal.

The principal market for Easter cattle
took place in the early took place in the early port of last cattle
when dealing was fairly active. The when dealing was fairly active. The
quality of the offerings was fairly good, quality of the offerings was fairly good,
and quite a large number of fancy aniand quite a large number of fancy ani-
mals were available. These sold up to
around around $91 / \mathrm{c}$. per lb., the range for fancy
steers being from sters being from 9 c. to 9 9yc., a few
animals being reported even higher
Fine stock was Fine stock was $81 /$ c. to $83 / \mathrm{cc}$. per 1 lb .,
and some fairly good animals sold around
8c 8c. Lower grades ranged down to $71 / 4$ c., and butchers' cows and bulls sold genqualities. Lambs.
were in active demand. ©hatever grade supply the demand and completely quence prices were firm at a conse I2c. per lb. for yearlings, and $\$ 5$ to $\$ 12$ each for spring lambs, according to size
and quality. The market for shee active at $71 / 2 \mathrm{c}$. to $81 / 2$. The supply
of calves was liberal stock took place while the lower grades sold at $41 / \mathrm{cc}$. 51/2c. per 1b. Demand for hogs con-
tinued brisk, and offerings were tinued brisk, and offerings .were fairly
liberal, selected lots selling at 12c. to $121 / 4 \mathrm{c}$. per 1 lb, , weighed off cars.
Horses.- Demand for rather better of late weeks than for considerable time past. Quite a few o
the smaller animals have been back to the country for use by farmers animals freely. have bought the large changed. Heavy draft horses was un 1,500 to 1,700 Ibs, have been weighing
sold at $\$ 200$ to $\$ 250$, $\left.\begin{array}{l}\text { sold at } \\ \text { draft } \\ 2000 \\ \text { to } \\ \$ 250\end{array}\right)$ each, while light were quoted at $\$ 15,400$ to $1,500 \mathrm{lbs}$., were quoted at $\$ 15100$ to $\$ 250$ each. and culls $\$ 50$ to $\$ 75$. Occasional sales of fine saddle and carriage animals were made at $\$ 200$ to $\$ 250$ each.
Dressed
Hogs.
dressed hogs was very firm, and prices
showed showed slight advance in sympathy
with the strength of the market for live. Sales of small lots of abattoir
dressed $161 / 4 \mathrm{c}$. to $161 / 2 \mathrm{c}$. per llo., these being among the highest prices on record.
Poultry.-The market was more active last week than for some time past were steady at 24c. to 27 c for Pric 22c. to 24c. for chickens; 17 c. . to 19c. for
geese and fowl, and 19 c . to 29 c . for Potatoes.-Trade in potatoes consteady at $\$ 1.75$ to $\$ 1.80$ per bag of 90 Ibs., in car lots for best quality, smat
lots being 15 c . per bag additiona lots being 15c. per bag additional.
Maple Syrup and Honey.-Indications are that the make of maple syrup will
turn out to be about an average. There was a fair demand for new syrup in was quoted at 13 c . to to each. per 14 c . 1 b
Honey was in moderate demand at $141 / \mathrm{cc}$ to 15 c . per lb . for white clover
comb, and 12 c . to $121 / 2$ c. for extracted comb, and 12 c . to $121 / 2 \mathrm{cc}$ for extracted
12 c . to 13 c . for brown clover comb, and
10 c . 11 . honey was 9c. to 10. . per bo. b .
Eggs.-Suplies are constantly in creasing, and notwithstanding the active
demand which developed for Easter, demand which developed for Easter,
the price was lower. In rund lots,
25 c. to $251 / 2$ c. was quoted, but in single cases 26 c . was the price.
Butter.-Receipts are increasing, but prices continued steady at 3 33. to to $31 /$, c.
for for finest creamery, and $321 / 2$. to 33 cc .
 have fuctuated considerably, no vorkery
definite change has taken place, and
dealers definite change has taken place, and
dealers quoted No. 1 commercial white
winter wheat, in car lots, at $\$ 1.05$ to
and Quebec No. 2 white being $501 / 2$
 ex-store. Canada Western oats were up
to 541 /2. for No. 2; 53 c. for No. 3 , and extra No. 1 fed; ; 521 c. for No. 1 feed, Flour.-Demand was light and price unchanged at $\$ 6.60$ per barrel, in bags, seconds, and $\$ 500$ patents; $\$ 6.10$ for Ontario patents were $\$ 6$, and bakers straigh ollers $\$ 5.30$ to $\$ 5.40$ per barrel, in wood, and $\$ 2.50$ per bag.
Hay. -The
and No. 1 hay was quoted at at $\$ 21.50$ o $\$ 22$ per ton; extra good No. 2 at $\$ 21$ o. 2 hay at $\$ 20.50$, and No. 3 at $\$ 19$. Seeds.-Demand $\$ 18$ per ton.
tions per 100 lbs . were $\$ 10$ to $\$ 15$ timothy; $\$ 22$ to $\$ 27$ for red clover, and Hides.-The alsike, Montreal.
30c. per 1 b . for No. 1 calf skins, and 28 c
30c. per lb. for No. 1 calf skins, and 28 c .
for No. 2; 21c. 20c. and 19 c , 1,2 and 3 beef hides, respectively. sheep skins were $\$ 2.50$ each, and horse
hides, $\$ 2.50$ to $\$ 3.50$ each. Rough tallow was $11 / 2$ c. to $21 / 1 /$ c. per lb., while rendered

## Buffalo.

Cattle.-Notwithstanding prices on cattle were decclined somewhat last week,
values remained very high, ten cent values remained very high, ten cent
steers being disposed of again in larger numbers than the week before, with anadians selling at nine cents readily, weighing less steers bringing the price, pounds. Handy butchering steers sold and heifers ranged up to $\$ 8.50$ to $\$ 9.10$ General market was a dime to fifteen ing sterer, with the top kinds of ship ers and feeders sold strong, straigh ads. averaging around 750 lbs., selling列 veraging up generally around six cents $\$ 7.60$ were form sale, tops bringing trade is showing some improvement, the ance of grass better with the appea all classes of steers. Local killers tain that they are paying higher prices than ever before in the history of the
trade at this time of the year. steers are coming, better than for a while back, and some of the best Canadians ever marketed on the local market have been coming of late weeks,
and
more of of these well-finished kinds 3,975 head, as Receipts last week werc week before, and 3,935 head for the week before, and 3,935 head for the
corresponding week last year. Quota-

Shipping
natives $\$ 9.40$ toers.-Choice to prime natives, 89.40 to $\$ 10$; fair to good, $\$ 8.75$
to $\$ 9.15$; plain, $\$ 8.40$ to $\$ 8.60$ ver coarse and common, $\$ 8$ to $\$ 88.25$; best Canadians, 88.75 to 89.25 ; fair to good $\$ 7.75$ to 88.10 .
Butchering Steers. - Choice, heavy
$\$ 8.75$ to $\$ 9$; fair to good, $\$ 8$ to 88.50 88.75 to 89 ; rair to good, $\$ 8$ to $\$ 8.50$
best handy, $\$ 8.85$ to $\$ 9.25$; common to god, $\$ 8$ to $\$ 8.55$; light, thin, $\$ 7.50$ to yearlings, common to good, 88.25 to \$8.65s.
Cow
 heilers, $\$ 7.50$ to 88.50 ; best handy
butcher heifers, $\$ 7.75$ to $\$ 8.25$; common o good, $\$ 6.50$ to 87.50 ; best heavy, fat cows, $\$ 6.50$ to $\$ 7.50$; good batchering
cows, $\$ 6$ to $\$ 6.50$ medium to o 85.75 ; cutters, $\$ 4.25$ to $\$ 4.75$; canners

## Bulls.-Best heavy, $\$ 7.25$ to $\$ 7.75$,

 Stockers and Feeders.- - Best feeders,
87.25 to 87.50 ; common to good, 86.50 86.75; best stockers, $\$ 6.50$ god, 86.50
to $\$ 6.75$;
common to good, 85.75 to $\$ 6.25$. Hogs.-Prices showed a downward
tendency last week. Monday ton 810.45, few sold at $\$ 10.40$, bulk moved at $\$ 10.35$, and pigs landed at 89.50 .
Tuesday there was a little reaction and the next three days prices were gen-
erally lower, best grades on Friday selling at $\$ 10$ and $\$ 10.05$, with pigs around
$\$ 9.25$. Roughs the fore part of the week reached up to $\$ 9.35$, and during the
low time or on Friday they landed
mostly at $\$ 9$. Stags went

Receipts last week were approximately head for the as compared with 27,189 head for the week previous, and 29,400 Shep and Lambs.- Buffalo made new high mark for wool lambs last week, one double deck selling Monday week,
$\$ 12.25$, and this price was secured for two loads on Tuesday. Bulk of the desirable wool lambs, however, sold at became weaker, and on Friday market ones could not be placed above the best Clipped lambs comprised the big end of the crop, and during the entire week the most desirable ones showed a range going from $\$ 9$ down. Heawh culls were very low sale, some tavy lambs pounds with wool selling at \$11, and down 100 pound shorn lambs landed steady the. Sheep were scarce and from $\$ 8.25$ to $\$ 8.50$, with ewes $\$ 7.75$ head. Receipts last week were 20,500 week' before, and 19,100 head for the Calves.-All mear ago.
very heavy receipts last week showed result was that prices struck the and the level of the season. Buffalo's run for the week reached close to 6,000 head, as against 4,469 head for the previous a year ago. Prices were the same week week advanced. - Monday lower as the erslly at $\$ 11.25$, with tops sold gen-
Tuessay it $\$$ wome $\$ 11.50$; Tuesday it was hard to get above
$\$ 10.7$ W. Wednesday nothing brought
above $\$ 10.50$; Thusd above $\$ 10.50$; Thursday's top was
$\$ 10.25$, and Friday the bulk moved at
$\$ 10$ $\$ 10$ Cull rades during the moved at
of the week sold frome

## Chicago.

Cattle.-Beeves, $\$ 7.85$ to $\$ 9$; stockers and feeders, 95.40 to $\$ 8.50$; cows and H9.40 $\$ 9.40$ to $\$ 9.80$; heavy, 89.25 to $\$ 9.85$; ough, $\$ 9.25$ to $\$ 9.40$, pigs, 89.75 to 89 ,
Sheep.

## Attractive Dining Car

## Service.

Proiably nothing helps more to make arailway journey really enjoyable than it be a Canadian Pacific Dining Car highest form of efficiency in the of the art, the choicest provisions the culinary affords, prepared on the scientific principle known as Dietetic Blending. may be lavite dish, as you like it, admidst ideal surroundings enasie cost, ling on the Canadian Pacific while travel-

Canadian turnips have been an issue lately before the United States Board from an Ontario point had been entered at a valuation of 14 cents per bushel,
which the Customs officils ow and took duty on a higher level The entry rate, however, was sustained
but in another case the officher but in another case the officials were
sustained on a basis of 17 cents instead sustained on a basis of 17 cents instead

## Gossip

Refer to the advertisement in this issue re C. C. Kettle's sale of Holsteins.
It will be held on Tuesday, May when 36 head will tuesday, May 2 the offering are Toronto and Londo prize winners. Holstein type and Holstein production are to be had at
this sale. Write for catalogue to C tettle, Wilsonville, Ont.
Kita
Kita

The entire herd of 75 Holsteins, the property of $\operatorname{Sir} H$. M. Pellatt, on his
ake Marie Farm, 11 miles King Station, will be sold by auction on cellent condition; they have excellent backing, and the females are good pro write the manager, R. S. Starr, King,

## Sale Dates Claimed.

May 2.-C. C. Kettle, Wilsonville,
May $11 .-$ Sir H. M. Pellatt, Lake
Marie Farm, King, Ont. Holsteins

## NO DME MAGAZINE <br> co EDUCATION:

## Outlook

Not to be conque
But to stand f
On Life's de
of loveliness, and time's mysterious
Of every thought and deed to clear the haze
Out of our eyes, considering only What man, what life, what love what beauty is,
This is to live and win the final praise
Tho' strife, ill-fortune and harsh human need
Beat down the sour, at moment
blind and dumb
With agony: Yet, patience - there
Many great voices with Life's outer sea, Hours of strange triumph, and, when few

Murmurs and glimpses of eternity -Archibald Lampman.

Scene_in a Field Hospital. A sight in camp in the daybreak gray As from my tent I emerge so early As from sleepless,
As slow I walk in the cool, fresh air the Three forms I see on stretchers lying brought out there untended lying,
Over each the blanket spread, ample Gray and heavy blanket, folding, covering all.

Curious I halt and silent stand Then with light fingers I from the face the blanket,
Who are you elderly man so gaunt and grim, with wel-gray hair, and flesh all sunken about
eyes?
Who are you my dear comrade?
Then to the second I step-and who
you my child and darling Who are you sweet boy with cheeks yet
Then to the third-a face nor child nor
old, very calm, as of beautiful Young man I think I know you-1 think this face is the face of
the Christ himself, Dead and divine and brother

## Among the Books

Whitman as a War Nurse, 1862-64.


 and aiter meaking sown hand wounded
working among the sick and wour, he
soldiers of the great Civi War her
where, after suffering a paralytic stroke, he lived with a brother until his death in 1892. Whitman once took a trip to Canada, and there are still a few in
London, Ontario,. who remember seeing London, Ontario, . who remember seeing him during his visit with the late Dr Bucke, author, of a work on cosmi Consciousness." In Camden, as de became the centre of a coterie of enthusiasts; "a man cannot be a mark for pilgrimage and attract no attention locally." The pilgrims, it is true, came from afar, for in America. During his to his own in America. ${ }^{\text {is }}$ disappe, and much to his disal ment, he was taken up least of all by the people for whom he wrote, the grea commonalty of the Republic, but from the beginning he was appreciated in Europe, where herican literary genius.The greatest American about his nursing days has been taken from "Walt Whit man: A Critical Study," by Basil de Selincourt. Published by the Martin Secker Pub. Co., 5 John St., Adelphi London, England.
The war was the test of Whitman's character, and the heroism it evoked in him throws a compelling splendor of light backwards and forwards over the whole course of his days. proer for service in the ranks, or have thought it necessary to allege the streak of Quakerism in his blood. But a poet like a general, has conflicting duties in war-time; indeed it is a point of military virtue that he should not needlessly
expose his person. Whitman felt it his duty to determine not merely what he duty to determine not merely what he
could do but what he could do best for his country. And it fell to his lot in the end not so much to risk death once as to die daily. He surrendered his the war, though he survived it by nearly the war, though he survived it by nearan Instinct, which time has proved to Instinct, which time has proved he of all men, could provide for the great struggle its imaginative theatre. So late as November 1863, when he had been already over a twelvemonth in the wards, he wrote to his friend, Charles
Eldridge, "I feel to devote myself more Eldridge, to more to the work of my life, which is making poems, I must bring out is making poems, must be continually bringing out poems." His brother George had volunteered for service with the Union troops; down South, linked, we may suppose, if not identified with
the Secessional cause, were other hearts with which his own could not but beat. (He had lived in the South for some time). He remained at home during the first eighteen months of the struggle, and it was there that a large part of "Drum Taps" was composed. wounded, he set out for the front, and, once among the scenes of the war, found
his high and rarefied poet's consciousness engulfed and obliterated before
daily and hourly calls upon his common humars sympathies. "During my two field," he wrote from Washington to the
New York Times in December, 1864, "I have made over six hundred visits from eighteen to twenty thousand of
the wounded and sick, as sustainer of the wounded and sick, as sustainer of
spirit and body in some slight degree, in their hour of need." Supporting
himself by ill-paid secretarial work in
Government office, he devoted all his energies to nursing, not giving up,
though his health was repeatedly threatened, so long as a single wounded man Any cash he could put by (his own wants were confined now and always to
the bare necessities of life), and any
went to provide for the soldiers those small luxuries and comforts which he knew did more than anything to suggest after consultation with the doctor, there would be an ice-cream treat for the whole ward; but as a rule he would bring a variety of small trifles, chosen to meet the whims of various patients and make them feel that they were re-membered-lo candy, and so on; and never, while funds lasted, were his capacious pockets without their supplies of stamps, writing paper, and above
all, though he was not himself a smoker, all, though
of tobacco
of tobacco.
This was action on an heroic scale; bút perhaps no one but Whitman could most endearing touch. It is beautifu that the poet should become a nurse it is still more beautiful that the nurse should not forget he is a son. Al through the strain and preoccupation
of his work, Whitman never failed to of his work, Whitman never faile his find time for a weekly letter to his published under the title of "The Wound Dresser," should be read by any who doubt Whitman's claim to a place in the communion of saints. Tendernes and devotion are predominant features each in ther as I and some of these poo wounded sick and dying men love each other"-but perhaps their most note worthy quality is the complete self possession they display. Fully awar of the momentous nature of the event which are passing on every side of him Whitman is neve fetraye fervour never exaggerates of his feelings by a hair. He turns quite naturally from tragic narrative to take his part in the small cares of the daily life of the family:all the domestic affairs at like to know, all the domestic affairs at home, don you have the usual things eating, ioafing around, and carting himself off to New York toward the latter part o every afternoon?
chosen offices Among his that of writing thully for the soldiers to friends and sweet earts; and in the case of death he would often write, on his own account to the parents in the unknown home:thought it would be soothing to you to have a few lines about the last days of your son Erastus Haskell.
used to sit by the side of
used to sit by the side of his bed, genand with the heat, and I would fan him . . Sometimes when I would come in he woke up, and I would lean down and kiss him; he would reach out his hand and pat my hair and beard. in the dark hospital. It was a curious and solemn scene, the sick and wounded lying all around, and this dear young man close to me, lying on what proved
to be his death-bed. I do not know his past life, but in what I saw and know Looking back on it, Whitman gave the war a significance for his literary
development which it had not really possessed. In a farewell essay he writes that "without these three or four years
and the experience they gave, 'Leaves of Grass would not now be existing,"
and by an arrangement which violates chronology he has made "Drum Taps," ing and memorable passages, the pivot and we regard him as peculiarly the the bulk of his most characteristic expression preceded it. He was, indeed, always more sensitive to truth of prin-
ciple than accidents of fact and ciple than accidents of fact; and the
truth here was that the national feeling
which found its expression in the war had in him been strong enough to anticipate such an expression, so thot
when the war came, the poems which it might have evoked were written already, eaving their writer at liberty to enact them, and to exhibit in his own person a supreme poem of comradeship and love. the war has quite the old unquenchable and intoxicating bravura of independence and we often feel him striving for the effects he does not reach. But the power on which those old frenzies were stayed has been revealed to us; we recognize in his message a greatness
which only devoted action could fitly

## Smiles.

They were a very saving old couple, furnished house
One day the old woman missed her husband.
"Joseph, where are you?" she called out.

I'm resting in the parlor," came the "What, on the sofy?" cried the old woman, horrified.

No, on the fioor. carpet!" came-in Not on the gra
"No; I've rolled it up!"

A certain college president wore sidewhiskers. Whenever he suggested removing them, there was a division of opinion in the family. One morning he in hand, with his right cheek shaved smooth.
"How do you like it, my dear?" he asked. "If you think it looks, well, I will shave the other side, too."-Facts and Fancies.

## Young Wife: "Oh, Montague, you do believe that I am always th Husband: "Eleanor, your shilling telegram this afternoon telling me where to go to. save sevenpence on a carpet-broon warns much <br> "How old is your big sister?" asked a caller of a little girl who was entertaining him in a Washington home until said but sister came in <br> "Well," replied the little girl, "I don't know just how old she is; but <br> April Song

Gods garden is this deep still wood, illed full of tender healing; mood "Each twelvemonth In gladdest mood stealing.
kiss the stream that has bepo bound, brush the supple willow, lay my soft cheek on the groundBeneath it springs a pillow

## moss and grass and wild-flower stalks,

 And gayer bloom will deck your walks, But mine is sweeter, bolder.God's garden is this deep still wood, And I the fickle vagrant-

## Hope's Quiet Hour.

A Warning to the Ungodly.
Dust thou art to dust returnest,' Hear these solemn words, I pray, In that last awful judgment day.
Pray listen to this timely warning, All those who tread the paths of sin, For on that day whore have not honored Him.

Come unto me, ye who are weary, Come unto me, I'll give thee rest 0 , listen to the words of Jesus, And lean upon His loving breast.
Hark to the blessed invitation
He giveth to you day by day,
And you shall have great consolatio His angels guard thee all the way.
I know the road is rough and narrow, That leadeth to the fold of God, and sometimes filled with pain an But 'tis th

So where He leads, come let us follow, E'en when our heart cries with the pain Then in the Valley of the Shadow,

Then death, that Jesus Christ hath Shall lose its sharp and painful sting And when we reach the Shining River
We shall behold our Heavenly King. Wild Rose.
Thank you, "Wild Rose", for your Itter and the dollar "for the needy. woman who has been ill more than year.-Hofe.

The Glory of Common Things.
Is not this the Carpenter?-St. Mark
"God keep us through the common days,
The level stretches white with dust When thought is tired, and hands upraise In days of slowly fretting care they must Then most we need the st
prayer." we need the strength of
The Great Teacher had worked quietly as a Carpenter in His little home town
until He was about thirty years old. Then the Spirit led Him forth; and the mighty power, so long hidden within world. was seen and recognized by the world. Great multitudes listened eagerly love which poured from of wisdom and was surrounded by crowds who would scarcely allow Him time to eat or sleep His quiet word of Peace had calmed the raging sea of Galilee. He had restored child from the reason and raised a dead He returned e sleep of death. Then His blameless to the people who knew teach in the synagogue; but His old neighbors were offended at Him. "Is not this the Carpenter, the son of Mary,
the brother of James, and Joses, and the brother of James, and Joses, and of Jude, and Simon? and are not his How could He be gre" they exclaimed. known Him since childhood and He had been content to stand among the village workmen as one of themselves?
"A . prophet is not without honor, but in his prophet is not without honor, but kin, and in his, and among, his own faithlessness hindered His so that "He could there do helpfulness, work" except the healing of a few sick folk. Perhaps the sick were more willing to seek His help, feeling more need of it We have a common saying: "Familiar"Distance contempt," and another view. Many, who would feel it the carpenth their dignity to choose a poor carpenter as a friend, look up in lowly We can see His Capenter of Nazareth. but perhaps if we had lived in Palestine when He walked visibly among men
wight have echoed Nathanael's
question: "Can there any good thing come out of Nazareth?" If man had planned the Incarnation the Savior of the world would not have spent thirty years of His short earthly life working as a village carpenter, career in some been offered a brilliant poured a flood of glorious light on things which we call "common". Bethlehem is great because our Lord was born there, Capernaum because it was "His own city during most of His public ministry, Jerusalem because it was took upon Himself the burden of


Women Who Have Taken Men's Places on a Farm at West Barsham Walsingham, Norfolk, England.
sins. But Nazareth has a sacredness task"; "but the Carpenter of Nazareth all its own, for there that shiming Life has lifted all honest work out Iossomed out in "wonderful beauty. wisdom and stature, and in favor with God and man."
God has veiled in holy silence those eighteen quiet years (See St. Luke ii. 42, iii. 23) but we may, in lowly reverence lift the veil a ittle and walk in spiri years of common toil. How those quie of the village must have loved to gather around Him, confiding their small troubles and pleasures to the one Listener who was never too busy the really interested we can picture clinging to Hi street, listening to His grave and vilage words and drinking in the sweetness of His smiling looks. Everyone in the neighborhood must have felt the uplift ing influence of that strong, beautiful Personality.

Tommy Takes Charge of the Threshing.

[^0]of a brokenhearted woman. Shall we dare to think that our special duty it of small importance, if our Living Master has placed some dear friend o is in our care?
Open your eyes and you will see how How poor this world would be without How poor thas world would be without
the every-day sunshine, the beauty of sky and landscape, the sweet freshness of the air, the love of relations and friende, the pleasant work and restful sleep, the peaceful sameness of life. God doed not think common things are of little
consequence. He cares about each spar-row-and sparrows are very "common" birds-He clothes in beauty each viotet, daisy and buttercup, and numbers even the hairs of our heads. We call some plants weeds", but "Emerson's des virtues have not been discovered." Perhaps/we have not looked for beauty in our own homes and our own duties. The beauty of Christ's everyday life was not seen by the people of Nazareth, Even when all Palestine was ringing with
His fame, they could only see the "Car. penter". Dawson says that St. Paul's word (Eph. ii. 10) which has been trans: lated workmanship, is really "poems." We are not saved by our own works,
says the Apostle in this says the Apostle in this passage, but our saivation is a free gift of God, "for
we are His poems." If that is the correct translation, it opens up our life as a thing of beauty. The poet reveale his inmost self in his poems, and God wants to show His heart of love to the
world through the daily lives of His world through the daily lives of His
children. The Life of Christ was the one perfect poem which satisfies our him and St. Paul declares that to of tiving "is Christ". Christ is living in him.
Is that true of you? Is He more life itself? Is He free to work put your will through you, or are you bent on doing what you chodse? Let us try to answer, these questions honestly, remembering that our business in this world is not to win honor and glory for ourselves, but to let our light shine in order that men may glorify our Father in church that the glory of God was shining in the face of Jesus Christ. That glory was a steady glow, as beautiful during the uneventful years at Nazareth as when the Good Physician went from place to place healing the sick and raising
We can see the glory of that life of lowly commonplace work- because
Nazareth lies far away from us. Let us pray that God may open our eyes to see also the every-day glory of the special work He puts into our hands, in the lives of people around us, even if it be in a common workman. Those who had the priceless privilege of knowing


Intimately the Man, whose Name is to-day infinitely above all other names miseed their opportunity and knew we are no wiser than they. It is easy to say:
"If I could hold within my hand re hammer jesus swung, Not all the gold in all the land, II. jewels countless as the sand, Could weigh the value of that thing Round which His fingers once did cling. If I could have the table He Once made in Nazareth,
Not all the pearls in all the sea, Nor crowns of kings, or kings to be Could buy that thing of wood He made, The Lord of Lords who learned a trade.,

Yet that treasure of iron or wood 6 as nothing compared with the value of one of his children. Are we too the King of heaven was willing to die? Dare we despise one of the least of His little ones? Then He says: Ye have done it unto Me." May the Divine Lover of souls forgive us, and fill us with love for the least of His brethren and sisters who are "here with us" still Dora Farncomb

## Fashions Dept.

How to Order Patterns. Order by number, giving age or measurement as required, and allowing Also state in which issue pattern apAlso state in which issue pattern apTERNN. If two numbers appear for he one suit, one for coat, the other or skirt, thirty cents must be sent. adress Fashion Department, "The Farmer's Advocate and Home Magaine," London, Ont. Be sure to sign our name ordering patterns.

When ordering, please use this form:Send the following pattern to

## Post Offic

Country.
Province......
Age (if child or misses' pattern)
Measurement-Waist Bust
Date of issue in which pattern ap-
peared.
Owing to the fact that custom duties on fashion cuts have been the price of patterns to 15 cents er number


8575-34 to 42 bust.

THE FARMER'S ADVOCATE.


8900
8900--Blouse, 34 to 42 bust


24-Small, 34 to 36 bust; mediu
to 40 bust; Llarge, 42 to 44 .
$8622-34$ to 42 bust.
Bolero Costume with Three-Piece Sk


8470-34 to 44 bust.



8773-6 to 10 years

## The Ingle Nook.

[Rules for correspondence in this and othe
Departments: (1) Kindly write on one side of Departments: (2) Always send name and add olve
 the real name will not be published. (so anyone,
enclosing a letter to be forwarded
place it in stamped envelope ready to be sent on. place it in stamped envelope ready to be sent on.
(4) Allow one month in this Department for
answers to questions to appear.] The Fireless Cooker and Its Uses.
A bulletin recently issued from Cornell University describes in detail the modern patented varieties.
As understood by those who use it, the principle of the cooker is merely the conservation of heat so that none of it can pass off from the dish that b being cooked to the surrounding ato thoroughly heated over a range, gat stove or il stove, then it is placed at once in the cooker and left until done The best commercial cookers are proviu, i. with a soapstone radiator, whictient in the cooker. This makes it posible in the cooker. This makes meat. The ond that merely only good for things that are not spoiled -or are the better for-long cooking, e. g. baked beans, boiled ham and bees,
stews of all kinds, scalloped potatoes stews of all kinds, scalloped potatos, etc.
Needless to say, a fireless cooker meane a great saving in fuel. It also prevents during warm weather, and, moreover, a great time-saver. Ordinarily the cool has to remain constantly beside the range, gas stove, electric stove or oil stove, to see that scorching of the food does not occur. The cook can start her dinner, put sweep, or whatever she chooses, for hours at a stretch.
The cost of a home-made cooker, notes the bulletin, may be from $\$ 1.50$ to $\$ 8.00$ or more, depending on the materiais. used-aluminum cooking vessels, etc. probably advisable not to try to male one at home; the commercial coolere are, as a rule, much better than the best
made at home by any except someone of truly mechanical skill. There is also
an "insulated oven" manufactured, which has top burners, and is pro vided with an asbestos lining which conserves the heat. All that is neces sary is to heat it up with the food The most easily made cooker, which any woman can make herself, may be constructed from any close woode box or trunk, candy bucket or galvanized roer is used, the lid should close very tightly. The inside container for the food may be any bucket of granite or tin with a tight cover, while the insulating material or packing may be of saw dust, excelsior, bits of crumpled paper - $\quad$.


Diagram of a Home-made Fireless
A, outer bucket; ${ }^{\text {D }}$, cushion; ; C , inner bucket container; E, packing material.
powdered asbestos. When the asbestos putting in the packing, be worn when be taken to prevent the material from entering the mouth and nose
After choosing your box line it well will do, but sheeting (layers of paper the cover in the same way. Next cover the inside bucket or kettle all over with of the larger box at least 3 inches of whatever non-conducting material is ased, place the inner bucket on this and pack all about very tightly to within halr an inch of the top of the inner bucket. Make a collar of zinc or sheet asbestos to cover the top of the insula be washed) Finaliy make a cushion of white cotton or musiin to put on top after the material to be cooked is put in.
The cooker is now ready for use.
Bring the material that is to be cooked oo boil on the range or oil-stove and place at once (or after a short boiling) in the cushion on top tightly and placing outer lid tightly, and do not owen the box to see how things are getting along until the necessary time has elapsed.
The interior of the fireless cooker should be kept absolutely clean, and the nner vessel should be sunned, if possible, after each using. This will prevent aste from orders and an unpleasant or containing the food and vessels in this compartment are nicer than those of tin or granite, but the latter

In using a fireless cooker it should ways be remembered that it is only cooking for foods that will stand slow of meat for tougher and cheaper cuts and gentle cooking to make them palatable. With a commercial them paltiming soapstone radiators the range of dishes is, of course, greatly increased. for coot only is the fireless cooker useful tures may b: by means of it frozen mixout melting kept for several hours withdoes not require stirring - parfait for instance-may be surrounded with ice and salt and put in the cooker to freeze. the insulation which keeps the heat in, is also hot vessel is placed in the cooker ing the heat of the sun, or a heated

Receipts for the Fireless Cooker under part of the round of peefe of the the cooker, with minutes then transfe cook 3 hours.-A commercial
is used. Tough beef flank may be done in the same way in $31 / 4$ hours. beef from the nec.-Take 2 lbs, tough carrots cut in bits, 3 tablespoons fat, 2 minced green bits, 1 sliced onion, 2 them, 1 small turnip cut fine, 1 cupful canned tomato, salt and pepper. Sear the meat in the fat, add the other ingredients, with a little boiling water if
needed. Boil 5 minutes then leave in the cooker for 4 hours.
Dried Prunes.-Wash the prunes and soak over night in twice their quantity the same water for 5 minutes, then put in cooker and leave 4 hours. Add sugar when done. Apples and rhubarb may be cooked in the same way but should be first boiled for 3 minutes in a thin syrup.
Steamed Pudding. -1 cup sweet milk, 1 cup molasses, $1 / 2$ cup butter, $31 / 2$ cups raisins or currants, $1 / 2$ teaspoon cinnamon, $1 / 4$ teaspoon ginger, $1 / 4$ teaspoon salt. Sir the soda into the molasses, add the with spices and salt, and lastly the sifted with spices and salt, and lastly the fruit
dredged with some of the flour the mixture into a buttered mould, place in a kettle of boiling water and boil for 30 minutes, then put the kettle in the cooker and leave for 5 hours.
Tapioca Pudding.- $1 / 2$ cup pearl $3 / 4$ cup sugar, $1 / 8$ teaspoon salt, 2 tablespoons butter. Soak the tapioca for 1 hour, then add the other ingredients and bring to a boil. Place in the cooker and leave for 1 hour. Serve cold with ream. -f the pudding is to be served warm use only 3 cups water
"Grandma's" Garden. Dear Junia--Speaking of gardens, What memories it brings up of the good always loved a garden and still have my flowers and vegetables. I think children should be encouraged to take an interest in the garden. I always allowed each one a small plot to do with as they pleased and it was interesting to blue-eyed maiden always planted flowers, sweet peas, gladiolus, asters, Canterbury bells, peonies, bleeding heart, and others oo numerous to mention, but the joy of her heart was the nasturtiums, and such grand large ones she had. In flowers picking bouquets for the dining room or parlor, her golden curls blended with the yellow blossoms, a lovely picture. Her brother, the dark-eyed dreamer, had different tastes and planted vegeables, berries and flowers all together, This garden was near an old milkhouse with a very low roof which was a favorite place for the old cat and her kittens to sun themselves. One day the young gardener came in and said: "Mamma, saw a million cats on the roof." "Oh "We" I said, " you didn't see that many." "Well", said he, "there must have been that many either," He thought for a while and then he said. "Well, II know I saw our old cat and another one. Another day we heard what sounded like blood-curding war-whoop in the direc fion of the young lad's garden and on going should we see but a young Indian with moccasined feet, leggings fringed at the back, a hideous head-dress of turkey feathers on his head and a large bow and arrow in his hands making great leaps and bounds through the pumpkin vines to scratch for worms under the spreading blackberry bush. For had he not taken great pains to bury the ends of the bushes to grow new ones and woe to the cat or hen that entered that sacred spot. If a caterpillar was found there it was promptly imprisoned a leaf for company there to make it

The little gardens are now overrun with grass, but the bleeding-heart and peony still survive in one and the blackberry bush and the orange lilies still garden by the olt nilk-house.

## About Tea-Cake Recipe

Dear Junia.-Here is a new member just
others


There probably isn't a kit chen in the land that's quite so clean as McCormick's aew model bakery. Everything about the "house"ingredients, pans, ovens, employees-are so scrupulously clean that, as the eaying is, one could almost eat off the floor.

Nowonder then that McCormick's Jersey Cream Sodas taste sa good; ther're sood beckuse therite purt and cleanly made; their dainty, wholesome flavor follows as a result of the precautions taken to ensure potless cleanliness in everything we do.


THE MCCORMICK MANUFACTURING CO, LIMITED
 Mabers abso of McCormich's Foncy Biscumbiol


## Used in Millions of Tea Pots Daily-Every Leaf is Pure

## Every infusion is alike delicious "SALADA"

 $\left.\begin{array}{l}\text { Black, Green } \\ \text { or Mixed }\end{array}\right\}$ Sealed Packets only. Eiss
## Aylmer Bronze Sprayer



The Aylmer Pump \& Scale Co., Limited, Aylmer, Ontario


I would like to know, the "pro's and con's"-of Green Tea.-Why has it, a bitter taste if not allowed to draw? -Hope some one will write on it, as green tea is used in some homes.-
tested cake recipe:tested cake recipe.- Canadian War Cake"- One lb
"Cablespoo raisins, 2 cups brown sugar, 1 tablespoon cinnamon, 1 teaspoon ground cloves, 2 cups cold water. Boil all five minutes. When cold add three cups flour, 1 teaspoon soda dissolved in 2 teaspoons hot water. Mix well, bake in a deep dish one hour, in a moderate oven. sifted flour, 1 cup sour milk, 1 cup brown sugar rolled, 1 cup baking molasses, $2 / 3$ cup butter, 2 eggs not beaten, 1 teaspoon soda, 2 teaspoons ginger, 1 teaspoon cinnamon, 1 teaspoon cloves, 1/4 teaspoon nutmeg. Put sugar, molasscs, butter and spices in mixing bowl;
set to get quite warm. Sift flour, then
and for each pound add a pound of susat Let cook very slowly until it thickene
slightly on a cold dish. It may slightly on a cold dish. It may take 6
hours. Put in jelly glasses and hours. Put in jelly glasses and when
cold cover with melted paraffin. Cold cover with melted paraffin.
using 1 dozen oranges to 4 lemons. For bitter orange marmalade soak the seeds in cold water over night and strain this water into the prepared fruit before cooking it. Cook slowly.
Jellied Veal.-Take a shank of veal and saw it across the bone in two or three places. Put it on to stew slowly it comes to a boil push to the back and let just simmer for 4 hours. Take the veal out, cut the meat from the bones, and put the bones back in the stock to boil longer. Meanwhile cut the meat in very small bits, or put it through a chopper. Take up the bones, strain the stock, then add to it the cut-up meat, putting all in a clean granite


Towel Embroidery.
Such a pattern as this may be easily drawn with a lead pencil.
measure. Rub baking pan well with butter. Beat all together bris
in slow oven about 40 minutes.
about 40 minutes. "Pontiac"
If green tea is not allowed to stew, but
is merely steeped in a warm pot for 3 minutes it should have no flavor foreign to it. Stewing any tea, or leaving the injurious ingredient "tannin" to be drawn from it into the water.

## Seasonable Cookery

Dandelion Greens.-Young dandelion plants make excellent "greens," d salted water, drain dry, season with on buttered pepper
Dandelion Cordial.-To 1 gal. dandelion flowers allow 1 gal. water. Let steep 3 days. Strain, add 3 lbs. sugar,
3 sliced lemons, 3 sliced oranges. Boil 3 sliced lemons, 3 sliced oranges. Boil.
Take off, strain again and when lukeTake off, strain again and when lukeand bottle. It will be ready in a month Serve 1 tablespoon in a glass of cold
Rhubarb Pickle-(To be eaten with cold meat), 4 lbs. diced rhubarb, 2 lbs. sugar, $11 / \mathrm{cups}$ vinegar, 1 teaspoon
cinnamon, 1 teaspoon ground cloves cinnamon, 1 teaspoon ground cloves,
1 teaspoon allspice, 1 saltspoon salt, $1 / 2$ 1 teaspoon allspice, 1 saltspoon salt,
teaspoon pepper. Stew all together.
teaspoon pepper. Stew all together.
Rhubarb with Prunes.-Cover $1 / 2 \mathrm{lb}$. rhubarb cut into dice, with boiling water and let stand until cold. Drain well. Take $1 / 2 \mathrm{lb}$. prunes, stewed and the pits removed. Place alternate rows of the dish, sprinkle with sugar to sweeten add the prune water, the juice of a
lemon and some bits of orange peel. lemon and some bits of orange peel.
Bake in a moderate oven.
Rhubarb Fool.-Press a quart of stewed rhubarb through a sieve and
sweeten to taste. Chill thoroughly and just before serving add a cupful of rich, slightly sweetened cream
Dried Peach Pickle.-Soak the neaches over night,-then remove skins as well as
possible. Place in jars with a few cloves possible. Place in jars with a few cloves,
bits of cinnamon, and almonds. Pour over them hot, sweet vinegar Grapefruit Marmalade.-For 6 grapefruit (large) take 4 lemons. Cut the
fruit in quarters and slice the quarters very thin, discarding seeds. Add 3
pints cold water for each pound of fruit. L.et stand 24 hours, then boil gently until the rind is tender, then set aside
until the next day. Weigh the mixture
kettle. Season to taste, and let boil enough uncovered, until the ere is just some boiled ham or hard-boiled egg in slices and place on the bottom of a mould then pour the veal over and set in a cool place to stiffen.

## The Scrap Bag.

Helps in Cleaning

## A medium-sized paint brush will

 be found very useful for brushing out cracks, around window-panes, etc. An ordinary blackboard eraser is very good in cleaning the corners of hardwoodfloors which the weighted brush fails to reach.

Garden Clogs.
A gardener says that wooden-soled clogs, when they can be got, are ideal Tor wearing in the garden on damp days. 2 inches thick, and uppers of stout leather.

Finishing Matting
Finish the ends of length of matting by ravelling out about $21 / 2$ inches from each end tying the strings into a fringe, and with it a bit of the matting if so desired

## Papering.

If you wish to paper plastered walls that have been painted wash them first with the following solution: $1 / 2 \mathrm{l}$. After washing dissolved in 1 galing sizing with a brush: ${ }^{1} \mathrm{lb}$. ground glue dissolved in a pail of dry, then paper as.usual.

A Milk Paint
Paint made as follows is said to be very durable for out-buildings. Make ust as much at a time as can be uselk 3 lbs Portland cement,-and add paint powder to make whatever color you de Stir frequently while applying.

A Durable Whitewash
The following whitcwash is also said lime with boiling water, covering the vessel during the process to keep in the steam. Strain the liquid through a fine sieve and add 8 qts. salt previously
rice boiled to a thin paste and stirred in boiling hot, $1 / 2 \mathrm{lb}$. powdered Spanish
whiting, and 1 lb . clean glue dissolved in little water. Put the whole mixture in a kettle set in a larger one filled with water, and hang =over a slow fire. Add 5 gals. hot water, stir well, and let stand a few days covered from the dust. When it is to be applied it shonld be reheated and put on hot. This wash is said to be as good as oil paint and much cheaper. green, may be added.

## OurSerialStory

The Road of Living Men. by will levington comport.
$A$ Athor or "Doon Amons Men."."Fate Knocks at
 Serial Rieihts Sccured.

And now we returned to the path and ascended cautiously to the Gate. It was the keeper. We knocked and called softly to no avail. The Chinese party had spoiled our chance of entrance. It would not do to make an qutcry. With each moment it became less advisable in my mind to implicate Yuan and his people in our plight, to the extent of rousing his loitering outside the wall. We dared not remain near the Gate, lest the Chinese return; and yet if Yuan came and failed to find us within, we must make our presence known. So the thoughts formed in a rush. I led the way for a short distance around the wall.
"I'm so sorry things are breaking like this. Yuan couldn't have foreseen it " $"$ "Please don't say it that way," she shall do the best that we know and can Please don't think of me-as one whose feelings must be spared-", My foot butted a low mound close to the wall. On the rise, I could touch the wall's coping and could feel the jagged pieces of broken glass set in the ancien plaster on top. I slipped off my coat, a tough garment of Bedford cord, and ness; then back against the masonry wove my fingers for her step. Her hand brushed down my arm. She caught the intent. " "Yes. It will be safer over there-
until Yuan comes." until Yuan comes."
"My shoes are so muddy_-" managed, and there is pe. This can be managed, and there is plenty of time.
Be careful to touch the wall only where the coat is." foot in its light wet boot, her hands upon my head-and up she went, to my shoulder, then to the coping with the coat beneath her. . . I heard her laughing softly in the darkness. The whisper reached me:
the dress. But have been hard-only for the dress. But-now, how can you make She was edging over to spare as much "I need only a grip for my hands.
Mary Romany looking' down-there was lift just in that. Upon most of the actions a man performs worthily, a woman primitive down. It had been a rathe was cut, strained over I went, my head rolling across her lap, as I dropped. Then Mary Romany let herself down upon the coat, I guiding her foot to my shoulder, then full she came, into my arms and to the gardenearth. She pressed my hand in a quick the Wall without, we had conquered the wall without being discovered by That instant ( possibly it was gust of rose-fragrance that lifted me) told Mary Romany I loved her I recal the diminutive sentence as quite of miraculous origin-no rococo whatsoever It was I who broke the silence. "I am more awed than you can possibly be,
Mary Romany," said I. "It must have Mary Romany," said I. "It must have She laughed. out of mind-nor the red in get Hsi tin lin, She breathed deeply and long, as if to

## To Those Who Own Old Style Separators

There has been considerable progress made in the design and construction of cream separators in the past five years. Yes, even in the last eighteen
months-for the latest Model Standard has some new features not possessed by other machines. It will pay owners of old style separators to seriously consider the advantages of the e newer machines. Your old machine may last for few more years, but the

will skim so much cleaner, run so much lighter, and save so much more time,
Send a sample of your skimmed milk to one of the Government Dairy Schbols for a Babcock Test and yout will probably find that your old machine Look up Government Dairy School Tests and you will find that the Standard loses but one-tenth of a pound of butter fat in one thousand pounds of milk skimmed. Figure out for yourself how much you are losing by leeeping your

## The Real Thing

Your old separator no doubt runs pretty hard. The latest Model Standard will be a revelation to you in easy running. And its automatic oiling system is a real one-not a make believe. It requires a fresh supply of oil only once every iwo to four months.

The Standard skims rapidly, is easily cleaned, the bowl being of the wideopen type, and the discs all being washed in one operation.

One of the biggest features of the new Model Standard is the interchangeable capacity. The size of the Standard can now be changed from smaller to larger, or vice-versa, by merely changing the size of the bowls and fittings. It is not
necessary to buy an entirely new machine when your herd grows larger, as is necessary to buy an entirely new machine when your herd grows larger, as is
necessary with an ordinary machine.


The Modern Made-in-Canada Machine

But the Standard has so many features-so many modern improvementsthat it takes a catalogue to describe them. Send for a copy of our latest edition. Every dairy farmer should have one in order to keep posted on the latest methods of cream separator construction.

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## (8) Miroth Made in <br> Money Savers for Farmers

## Seven good products good

 in more than Seventy different places YOU can't beat arithmetic. When you buy something I that has a limited usefulness your purchase is almost a luxury. But when you buy articles that you can use everyday around the farm you purchase money-saving utilities. day around the farm you purchase money-saving utilities.
Such is the line of Barrett Money Savers. Every one is a quality leader of its kind. Every one comes from the home of business success. Every one will put money in your pocket at some time or other by saving you costly repairs, and see if you are not struggling along without something you ought to have and can have for the minimum outlay

$\mathrm{F}_{4}^{\text {VEn smooth-surfaced or metal beol roofing, on aouricultural }}$ F on smooth-surfaced or metal roofing, on agricultural
implements, structural iron work, fences and exposed surfaces. It is elastic, adhesive, and wor rub, crack or peel. Good in any climate. Don't tet your implements It's permanent, cheap, and has great covering capacity. YOUR live stock will be free from annoyance by insects, Creonoid, the peerless lice destroyer and cow yopray. Not a
deodorant, but a destroyer. It helps to make healthy, happy deodorant, but a destroyer. Mpelps to make hea, You know
horses, contented cows and placi-minded pigs.
that vermin-infested live stock can't be profitable. Give them a chanco. Use Creono id in the barn, the pig-sty,
the poultry house. Youll see a difference. Sold in 1,5 the poultry house. You'll see a difference. Sold in
and 10 gallon containers and in half and full barrels. HERE is a ready roofing that needs no painting or other
attention to keep it watertight. Amatite Roofing has
a mineral surface that laughs at wind and wis

attractive because of its bright, sparkling appearance
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a wonderful toughness and durability. You can't beat
it for use on any steep roof. Inexpensive, easy to lay, it for use on any steep roof. Inexpensive, easy to lay,
and will be on the job keeping out water for years.

CARBONOL is a household wonder. It cleans, apply Carbonol in weakened solution. If your live
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derfully effective as a destroyer of vermin. Carbonol bel on every farm in Canada.
YCu know the wonderful preserving qualities of Well, Barrett's Grade One Creosote Oil
is the greatest product ever turned out

Garrettis
 insure your woodwork against decay. Creosote Oil
Applied to the posts of a fence it will add 15 years to that fence's life. By actual tests, it pene

OR the quick repairs that are daily necessary on the
farm, you need Elastigum. It is au elastic, waterproof cement. It is tenacious and durable. Just the thing for
joining and relining gutters, flashings around chimneys, sealing leaks in exposed places, renewing yutters, stuffing cornices and putting
glasses in greenhouses or skylights. It is easy to apply, is acid-proof and damp-proo

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## make part

in the rain. There's a little temple around hill I whispered. "Yuan showed me one da - yesterday. ... But you knew. You must have
$\qquad$ But
"Is the door open?" she asked. haps if we grope around, we can find it"A little place of worship carved out of
a verdured hill. . . Yes, here it is-" a verdured hill. open the creaking woode door and sat down out of the show dre my head to her shoulder
my "We've been good companions. Did you know a woman loves that-danger
and all? . . How terribly tired you are." I rested-and fell into the queeres mood orunokng backwa unfolded, con-smooth-running panoramir from every
taining ai salient souvenir from every life-crossing, some figment from every life-crossing, s, a bit of atmosphere from
high moment, every stirring picture. It was a passion
lifted above the senses that night. The lifted above the senses that nitit whisper-
beat of her heart was like a spirit ing all that I should sometime know. self-consciousness- just a true relation of self-consciousness- ast a drief time of
things visioned in a rare breat
perfect rapport. My lips formed the perfect rapport. My lips
words:
"I seem to have come home-"
There would have been no significance There would have been no signiicance
at all in the utterance nothing out of
ont the commonplace-had not Mary Romany of mind.
of "How dear for a, man to say, and for
a woman to hear," she whispered. a woman to hear," she whispered. It did not come again, that open door
into the past, but the clear harmony of into the past, but the clear harmony of
it lived in our minds for many moments. it last I heard from without the Wall, the low voices of natives. They passed by from the Gate around the Wall; and then we heard them coming backa sickening discord
the words reached me
We had made no rivers of Babylonthe signal from Yuan in the party was the signal from I called to him from the low door of the temple. A moment
lafterward he appeared in the gardens alone. "I found you had not come through the Gate and
hiding somewhere ougside. I Iknew you
wouldn't answer until you were sure of me. A bad botch of things-such a
shabby way to treat you. Please for shabby way to treat you. Please for
give your friend. I don't see yet-why I explained about the party from the
river. He gripped my hand thankfully river. He gripped my hand thankury
"It is good and merciful for me- that
you two proved so wise as to avoid thoses you two proved so wise as to avoid those
river-men. I must have been called very strongly over the river.
Yes, they have had a hard Yes, they have had a hard time.
can't do exactly as I would. The pro vinces are aroused against the foreigners
and I am Chinese. Mine is and I am Chinese. My
part-even against my a serverts. to Come with me now, I am going started down the riyer before daylight It's just two now-"'
It was hard to believe that it was not later. Yet the dark immensity of that night (which had held a rapture, too)
had other unfoldings. . We crossed the gardens to the broad low house
-I to the room of the night before, in which I had plotted the solitary journey
up the river-road, and Mary Romer up the river-road, and Mary Romany
to the room next, which Yuan had occupied. I crowded questions upon
him as to what had taken place across "One of the Germans was murdered
on the Bluffs last evening-almost in front of the Rest House. One boat was
all the Germans had. They offered to take two of the women from the Mission. here was some trouble as to who should
go-but it was settled. Miss Forbes is go-
still at the Mission, a Miss Austin, the
Benson Benson man, and Huntoon, our friend
Huntoon. He went over there at once
when the trouble began. It is said that the Chinese tried to keep him from reach-
ing there but he evaded their fire and
in The rest of the Germans, and
your lady's father, are at the Rest House
now." "
Yuan drew closer to add:
"My dear friend, if $I$ shouldn't get
"My dear friend, if I shouldn't ge
chance to impress it upon you agait
, thember this: You must kill
a chance
emembe
ciently when 1 left you below at the landing. I shall get you plenty of gune
when you start down the river. This is war. Pelking and Tien tsin the legations and embasies-they all knem it days ago. If
you-you must
Chill-and
kill you-you must kill-and kill, first. That's your chance. They haven't quite
the real spirit of it in Liu chuan yete the real spirit of have stopped burning or they wouldn't have stopped burning
with the schoolhouse, nor killing-with with the schooltouse, nor danger in getting you away before dawn.
We must be swift and masterful. An. We must be swift and masterful. Another night and I could not.
There are American and British gun. There are American and British gun:
boats at Hankow. The foreigners acrose the river, and you and Miss Romany, alongside.
to all appearance-and together in the smallest of the boats with two of my oldest servants. I'll join the Mission party. Your lady's father and the three remaining Germans will make up
the third boat. You white people refuse to be afraid. It will cost yon
Especially fearless is this big angry man-Mr. Romany. He wanted to come across here to get his daughter; and says he has not yet decided to leave Santell up the river. I told him had trouble with him. You two must not see him before the start. He might detain you, or want to take his daughter back with him for Santell. I'm not particularly coherent, b,
able to think about-"
"I'll do exactly as you say. I can't get back here so soon the landing. It was different, more serious than I thought. Then since the rain at midnight, the Chinese have been quiet. All was well at the Mission. I talked with the people there for a rew
minutes.
Huntoon has a bullet through the arm, but is cheerful
I was thinking about Yuan's repeated admontion to kill.
"But these are your people-" I'd be neutral at best if it were not for you-and those across. You are my people, too,-closer to me than the
natives-except as a whole. You would see if it were my own life how dear this need, because you are slow to fear You have traveled here and in Tibet alone. Believe me, it is all different
to-night-there is a lust you have never to-night-there is a lust you have neve
known nor seen before. This is the known nor seen before. atraid of guns. The Fist of Righteous Har
As he spoke, Yuan had been gathering native clothing for me and preparing a
paste for our faces. A maid servant was paste for our faces. A maid servant wan
helping in the next room. We were helping in the next room. We wer
disguised with a perfection of Oriental disguised with a perfection of oriend Mary Romany came forth laughing. Slight and lithe, and like a boy, sho seemed in the native garments. If her eyes was that soft humid light tha made a child and worshipper. of me Though she laughed and whispered a it was all unearthly-as if we were ir
deep dream together. Santell seemed far back-waving from the rim of another world; and her father, a center of dynamics from whose zone of a traction we were remotery , ilt won't wash off," Yuan waying "You will be Chinese until we reach
Hankow. Only do not speak. I wish Hankow. Only do not speake China-those across the river." Romany said, Mary ing together.
He gave her two light pistols to conceal in her garments. I spoke of my
guns and other portable possessions guns and other portable possese.
across the river at the Rest A quick look from Yuan reminded me that he did not want Nicholat Romany and his daughter

## The Oriental mind conceived this reply

 Urther to cover the situation: "You might and "You might go over with me, mse,leave Miss Romany here. You see
the discuises complicate. Explanations, the disguises complicate. Explanation-
might be required for the GermansShe did not speak. The wall to the
garden had not dismayed her, nor the native river-men who forced us into hiding, nor accompanying me from
Hsi tin lin-but her sudden sharp. dread Hsi tin lin-but her sudden sharp. drea
at being left alone in Yuan's house,
sensed as ke Also 1 knev
to keep us to to keep us said I, and her breath. breathing. left few minute
decided to the foot of boats ready party. Our provisioned To one of extended
tence of the boat wa moment the are ready?" landing is the boat-if The opposit The misty
to the brea Thas dank running cur nor from wheedling in their $p$
strain of the

## The

sensed as keenly as if it had been my own. Also I knew-that Yuan's intention was to keep us together, and at $t$ apa'Il not mention possessions again," said I, and he offered a pair of pistols her breath. I think she had stopped breathing.
We left the house for the landing a few minutes past three. Yuan had decided to leave us across the river at the foot of a street in the native quarter, but withir hailing distance from the party. Our junk meanwhile had been provisioned for several days. Three of Yuan's boatman were taken for a crew. To one of the Chinese, my friend gave extended instructions, a word or sentence of which I cauggt now and then. The boat was to be in my charge, at the
moment the real flight began. "Will you signal us when your boats are ready?" I asked.
"You'll hear us putting, off. Your landing is but a little below" he answered. "I'll circle a lantern in the stem of the boat-if it is dark. You'll know." The opposite wall of the gorge was black The misty rain quiclened our nostrils to the breath of the sullen stream. It was dank and ancient like a cistern. There was no sound from the deep running current, from the city acrossnor from the dying night-only the in their polished thole-pins-and the strain of the poling against the stream.

To be continued.

## The Windrow

German merchant ships to the value of $\$ 100,000,000$, which would be seized are interned in American waters.
Dr. Albert H. Burr of Chicago, in a paper read recently before the Medical Society of that city, states that women
live longer than men, on the average, because men are the tobacco users.
So great is the demand for yarn that leathers are now being woven in with the
fibre of both woollen and cotton

One French woman out of every three is now in mourning.
Thirty of the armoured cars at the front were presented to the British by the T. Eaton Co., Toronto.
In these days of high-priced meat it is interesting to read of the abundance of game when America was younger. America between the years 1563 and 1759 have been collected and published by Mr C. H. Firth, and among them is one which seems to show that the cost of living could not have been high in New England at the time when it was written:
There fights of Fowl do cloud the light, Great Turkies of sixty pounds in weight, As big as Estriges; there Geese Are sold with thanks for pence a piece;
Of Duck and Mailard Twenty for two-pence malke a meale: Yeanty andor chur-pence make a meale Within whose bosome all are sure.
Auguste Rodin, the famous French sculptor, has given to the. French Government his entire collection of art made into a public museum for their exhibition. in public museum for their

The Germans are said to be makingnitrates from the air, cotton from wood, and rubber from potatoes.
There exists an agreement among terms of peace without the approval of all the others. This pact has been signed by Great Britain, France, in addititium, Japan and Russia, and, the claims of Serbi, Me war is over ugal, Greece, Persia, Montenegro, Portalso have to be considered. Evidently to stop the war will be as difficult as to settle the complications that must arise from

King Alfonso of Spain is a French
Bourbon on his father's side, an Austrian

## Production and Thrift

TO win the war with the decisivenies which will ensure listing peace, the Empire this viewpoint it is our true policy to augment our financial strength by multiplying our productive exertions and by exercising rigid economy, which reduces to the minimum all expenditures upon luxuries and non-essentials. Only in this way shall we be able to make good the loss caused by the withdrawal of 80 many or our workers from indus trial activities, repair the wastage of the war, and find the funds for its continuance. It cannot be too frequently or too earnently impressed upon our people that the heaviese buidens of the conflict still lie before us, and that induatry and thrift are, for thove our success, and consoquently our national aefety, may , ultimately depend." SIR THOMAS WHITE, Minieter of Finance

## PRODUCE MORE, SAVE MORE. <br> MAKE LABOUR EFFICIENT. <br> SAVE MATERIALS FROM WASTE. SPEND MONEY WISELY.

LET US PRODUCE AND SAVE-
The war is now turning on a contest of all forces and resources-men, munitions, food, money. The call to all is to produce more and more. of may be enlist must be taken by those at home, men and women, old and young. The more we produce the in the gardens. Cave Produce more olp to win the war.

LET US NOT WASTE OUR LABOUR-
In this war-time all labour should be directly productive or should be assisting in production. Make it as efficient as possible. If your labour is on something that can be postponed, put it off till after the war and makiness of all Canadians. Efficiency in labour is as mportant as efficiency in fighting.

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


Ask the Man of the House

 Inow how hatr it it is and how destructive to fabric, tct do
washing without the best equipment and how much you need an
EASY VACUUM WASHER



 Air presere and vacuum suction that will force sact hor-
rents of water through the the thes that rents on waerent and do it without the slightest injury to the
comost delicate fabric?
 EASY WASHER CO. 42 Clinton Place, Toronto, Ont.

## HINVNSA MILKER



LET US NOT WASTE MATERIALS-
Begin at home. The larger portion of salarios and wages is spent-on the home-lood, fuel, light clothing. Are any of these things being wasted $\$ 20.00$ a year aeved from waste in every home in Canada will more than pay the interest on a war deb

LET US SPEND OUR MONEY WISELYAre you spending your money to the best advantage ? What do you think of extravagance in war time Tens of thousands of Canadians are daily nisking their lives for us at home. Is it not our duty
to be careful and economical? an important part of the war Cquinadian dollars are an important part of the war equipment. Make the Bond Have a War Saving Account Buy a-Wa Bond.


Tom-You're not turning as fast as Dad does, Mary. Mary-No Tom, but well got all the cream any way
with this lovely new machine. Dad says

## "It Skims Clean at Any Speed"

That's what this marvelous new invention actually does. A fixed-feed separator may skim clean if in perfect order and turned at just the right speed. But every member of the family turns the crank at a different rate; no can maintinin an even speed all the time-it innchanging inflow of milk. That's why it loses cream when not turned at exactly the right speed.

## THE NEW SHARPLES SUCTION-FEED

Separator gets all the cream because it automatically regue lates the inflow exactly in proportion to the separating force -always just right for perfect skimming.
The Suction-feed Separator delivers smooth cream of even thickness that churns out more butter of choicest quality. If you sell cream you can guarantee uniform density.
You can increase the capacity of the Suction-feed by simply turning faster, and get through quicker if in a hurry. The new Sharples is the only Separator that can be hastened. You can easily pour milk from a forty-quart can into
the low supply can. It's the largest found on any separator —and it's only knee-high.
The women folks prefer the Sharples because the simple tubular bowl is so easily cleaned. Has only three pieces

- no disks to wash or to get mixed up. The tubular shape gives double skimming force.
The new Sharples is ruggedly built for hard service. It is neat, compact, runs easily and oils itself.
This wonderful machine will earn you a new dairy "Velvet" for Dairymen, fully describes the Suction-feed. Your copy is ready. Send for it today. Address Dept. 78.
- The Sharples Separator Co.


Hapsburg on his mother's and is himself an English Princess, a granddaught of Queen Victoria. Whatever his sympathies in the war have been, it has

## been his neutrality

There is no doubt at all that both for
the grand lines of its own movement
and for its significance in relation to the future character and Yesur be
the war, the battle of Verdun will be
record as one of the greater dramas recorded as one of the greater
of all time. On the one side, when
onetal employed, we take the weight of metal employed,
with the mass and fury of men, we take with the mass and fury of men,
together whe
the fight far surpasses everything that the fight far surpasses ever Mountains
has been. seen before. of ammunition, shells that had been accumulating No previous experience
shot away. No or imagination had contemplated for
a moment such a sustained tempest of steel and chemicals as has raged over the
heuse.-London heights.
"Observer.

Shakespeare was buried in a tomb before the altar in the church at Strat-
ford-on-Avon on April 23 rd. just three ford-on-Avon on April 23 rd. just three
hundred years ago. The tomb was hundred years ago.
made 17 feet deep and has never been opened.
Of late years during the week preceding Easter a disgusting sight has
windows of many been seen in stuffed bodies of downy
stores-the chickens and ducks offered for sale as "Our Dumb Animals" comments as
follows: "There cannot be anything more at variance with the spirit of what it is meant to symbolize or celebrat downy chickens put in the collections of Easter novelties. Many thousands must have been produced in incubators to
supply this horrible demand. Then the soft, chirpy little things are pinched to death by two strong fingers compressing the lungs and 'taxidermed memorated by cruelly slaying the creaof the Resurrection among eastern peoples! The idea is so grotesquely contradictory
that an instant's thought would make that an instant's thought would make
anyone pass these little victims by anyone pass these little
choosing a friend's gift.

War Names. Babies which elect to be born in
war-time must face the risk of having
to go through life encumberrd with names
which mark the period of their birth
almost as accurately as a Registrar's
certificiate. The wife of a gardener in
a suburb recentl| presented her husband
with twins, bringing the total number of
children to thirteen. of the older ones two are at the war, and after a lengthy
family council it has been decided to family council it has been decided to
name the twins respectively, Nancy
Lille and Victor Mons. During the


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booklet $F$. It not only tells all about the booklet F . It not only complexion; but it tells how we permanent ly remove Superfluous Hair,
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study apes, to be located in California, advocated by $\underset{*}{\text { Prof. }} \underset{*}{\text { Yerkes }} \underset{*}{i}$ of Harvard Progressive Chinese scholars are proin the Chinese language.

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Protection of Wild Birds.
When so much has been written and
said about the destruction caused by insect life such as the boll weevil, straw-
berry weevil, pea weevil, potato bug, house-fly and many others, why is not birds, the farmers' best friends? How
is it that in England you will see 50 birds to every one you will find over here? They are protected and rightly
so. Of course, we all know that there harm and others that do both harm and good, but the balance is on the latter
side. This cannot be said of insect
pests. Even the much-despised English sparrow docs far more good than the the old country they are, not troubled nearly so much with flies, bugs, weevils
or any other kind of insect, and this I
attribute chiefly to the feathered tribe They destroy millions of insects and by harm done to crops by insects, which is far more destructive than that caused by
the worst kind of birds. I think that some method of protection should be em ployed in this country for wild birds, for
the more we have of them the fess we


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s. 20/677.


Lens, in the New Statesman, points
out very emphatically the seriousness of the eugenic problem caused by the war. During 1915, he notes, England lost about 90,000 men, about half as many again as the deaths from tuberculosis. But neither tuberculosis nor first observed takes war, as Sophocles best. Here, then is a calamity un paralleled in our history, alike in numbers and quality. Wellington, be it remembered, thought to the last that the British army should consist of the scum
of the earth. Only birth can compensate for death, ond bet during 1915 the sate for death, and yet during 1915 the
birth-rate was birth

It is told of Sardou that, at one time, before his literary success came, he was greatly distressed by being ordered by that neither" hest for a year, a holiday creative temperament welcomed nervously cided to go" on working, if need be, to the death, and besame so fragile that upon one occasion he was arrested by the police as a girl masquerading in men's clothes. One day he got hold of a discarded donkey, mounted it, and set "Go where thou wilt, my frimine, saying: myself to thy taste and good behaviour o" The donkey took him to a splendid old villa at Marley, and there he sat contrasting his own lot with that of those who could dwell in such houses. He went on with his pilgrimage and his writing. Many or his plays were reacclaimed as a dramatic king, zold was poured out to him, and he returned with the self-same donkey and bought the house.
The great American artist, Sargent, who has been living for some years in the house in which the not rite Streets artist, Whistler, once lived. Whistler's dining-room, a long, narrow apartment with pale yellow-washed walls, was the rendezvous at that time of all sorts of wonderful and radical souls, and we are old, people almost fought invitations Gnancial condition did not always warrant unchecked hospitality, and on one occasion the bailiffs were actually in possession at the time of a big and distinguished breakfast party. Quite undaunted the inimitable Jimmy persuaded the baiffs to act as extra waiters and had departed off he went to his alley in the Fullam Road to produce another masterpiece and so free himself for the forging of fresh burdens.

Ray Stannard Baker ("David Gray-
son") tells us how once he and Colonel son" tells us how once he and Colonel
Goethals went to look at a half-mile stretch near the Culebra cut where they had to keep 8,000 men at work, because canal as they could get out in the day. particularly bad land-slide, how things were. 'Oh,', answered the foreman, Hagan, 'we'se had a bad slide, and
our dredge is buried there, but every-
thing's fine we.re diggingl', thing's fine; we're digging!'
There is a whole lot of land slid down Europe is covering up our tracks, our tools, our civilization, but,
my friends, we are divging my friends, we are digging! We have
lost time and tools, but we haven't lost the trick of renewing our efforts. We are digging, and God is superintending roll up your sleeves, and help-we're digging!-Christian Advocate.

The Man Who Dropped the Match. Those who know the fascination of
pondering on the great 'ifs' of history pondering on the great itss of history
will find their thoughts set working to some purpose by the news that the wretched Serbian student Prinzip, whose shot at Sarajevo on June 28, 2914 , set
Europe afire, is dying of consumption Europe afre, is is dy
in an Austrian jail.
It is arguable that no single action in all recorded time has so changed the fate of the world as his. It may be
that the Great War would have come that the Great War would have come in any case. That we can never know
But the murder of the Archduke was the But the murder of the Archdeke was immediate cause is of an explosion in the powder magazine where it falls, powder magazine where it iels.


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Wellington had lost at Waterloo, the
conceivable consequences would have conceivable consequences would have
been less wide than those which might ave been averted if this Pan-Slay as he confessed he was tempted to do husband's side in the carriage
That is an 'if' that will not bear con mplation.
Aison and face death hy disease while millions whose lives his shot imperilled have met their end by fire and sword ive of those said to be implicated with has in the plot were hanged, but his age ot by Austrian law suffer the deat penal servitude. Should he live to com plete it, he would emerge to find the ame of his act
One wonders if his prison walls are thick enough to keep from his ears the If not, his thoughts must be such as would beggar even Aschylus of imagin
tive compound ! \&adjectives.-Man hester Guardian

## The Dollar Chain

A fund maintained by readers of "The
armer's Advocate and Home Magafor (1) Red Cross Supplies;
Soldiers' Comforts; (3) Belgian Relief (4) Serbian Relief.

Contributions from April 14 to April 2.50; Four Little Friends, Ida, Ont ath School, Beverly Tp., $\$ 5$; A Freind 1; "Margaret," Durham Co., Ont., \$2 . Russell,' Maryland, Que., \$1. The 5 , was omitted last Portland, ont, Amount previously acknowl- $\$ 2,244.65$
edged. Total to April 21st.... $\$ 2,264.90$ FRONT, GIVE.
Kindly address contributions to "The armers Advocate and Home Maga-

Field Marshal von der Goltz, Com-
mander-in-Chief of the First Turkish army died last week of spotted fever.

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THE FARMER'S ADVOCATE
A Woman's Gardening Experience.
Editor Farmer's Advocate:
I read with much interest the experiences of others in your paper alons
different lines of farm work relating to poultry, gardening and dairy ing. Most country housekeepers are no doubt, are thinking, but find it rathe difficult, to interest the men sufficiently so they will do their share. To these would say: do something toward gardening yoursear, if onty to spade a small space
youse a fork, as I find it pulverizes the soil better and is easier to
handle) and plant something if handle) and plant something, if only simple flowers Do not leave out the flowers, for there is nothing more re freshing and encouraging when tired an blue than some blossoms to work among or even a few minutes at the window gazing at them will cheer one up an give more courage to face the next duty I started on rather a small scale, just
a few rows among the potatoes. Now can get all the garden space I want, a well as help to plant and cultivate. Then, as soon as warm enough, I plant more in a bed on the warm, sheltered side a few frosty nights. $\quad$ I also transplan from boxes here before putting out in plant, and they require less care than when in boxes in the house I try to have as much as possible ready to trans plant into the garden, as I find it easie-
to keep plants hoed than itit is to thin to keep plants hoed than it is to thin
and weed them as they come up. Weeds seem to start first and keep ahead unless to. In transplanting, I press the earth very firmly around the plants with my loot, and then 1 throw a little loose earth around them. This seems to keep
the plants from wilting down and the ground from drying out.
I buy a few boxes of fowe petunias, phlox, or others I I may fancy;
and tomatoes and cabbage. I transplant my lettuce and have lovely large heads. Just here I would say that celery-growing
is not as complicated as many amateurs suppose. It was some time before I supntured, but now I have it first on my single row in a shallow trench, only a in and the plants are kept well hoed. In the fall I wrap each plant with building paper (not tar paper) and I had the
most delicious celery last season I ever mosted. After a few frosts, 1 took up the each root and packed it in boxes in the cellar, giving water occasionally to keep
from wilting. I broke off the celery stalks and put the roots in a box of arth, and, white rade noe like the envor
of the celery, it made excellent greens for winter. but it is a valuable addition to the garc'e., on account of its medicinal properties.
The curly variety is very ornamental. The seed resembles beets in appearance, and it is grown in the same way. The stalk or stem is used with a cream sauce, and the green stem is used or greens.
It grows out again the same as lettuce,
never getting bitter or tough. The stem is also used as celery.
A few melons are always appreciated. I am going to try starting the seed be-
tween damp flannels before planting. I tween damp
tried this way with nasturtiums last year
and found they were up very much earlier. I soak seeds, such as beans and
peas, in warm water to hurry them along. My garden is atl marked in rows for
planting after a thorough cultivation similar to that given through the rows
The horse-hoe is run
as soon as possible after each tain, or once a week if at all pesstree $11 \mathrm{im-}$
over the rows.
a rain, as it pulverizes the ground better.
If there is any special part of the garden
I wish to rush, I hoe it every day If


## GEO.KEITH \&SONS <br> 24 KING ST. E SEEDS <br> TORONTO



Dispersion Sale of Holsteins Local conditions have compelied me to sell by auction at my Lake
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selected from the leading herds of Ontario, regardiess of cost, on indiviclual merit and high official backing. Many of them are prize winners at the
big shows and carry the best producing blord in Canada. Many will have calves at foot or be about due to calve to the stock bull, Segis De assistant in service, Sir Colantha Abbekirk, and about a dozen other young Terms:- (ahh unless otherwise arranged.
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You can keep one-or four- able. No wicks to trim nor valves burners at an intensely hot flame, or at a mere simmer. To regulate the heat you turn a lever according to a dial.
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8

## MANGEL "OUR IDEAL"

Lexans the wry yclow Flieh






quiet hour in the garden before starting the day's work.
Last year my flowers were poppies, Last year my flowers were poppies, balsams, ashers, 'nasturtiums, sweet peas
petunia $\ddagger$ phlox, and morning glories. For vegetables 1 grew tomatoes, peas, beans, cabbage, lettuce, radishes, Swiss chard, celery,
carrots, parsinips, onions, corn, citrons, carrots, parsnips, ors and, squash. Vines pumpkin, cucworrs. Sometimes peas and radish which come out early are grown beside them. Last year 1 grew most of my own seed. I found celery parsnip and beet seed not hard at all to produce.
A very important thing to remember in gardening is a poultry-proof fence.
keep heavy fowls that will not go over keep heavy fowls that wil not go ovel chickens are a benefit to a garden, as
they destroy many injurious insects and they destroy many injurious insects and their scratching also helps. As soon as
they are large enough to do any damage they are large enough to do any damaase
they are taken to the corn field in a they are taken to house and allowed to assist in cultivation there. Leghorns or light fowls have no place on a farm
my ${ }^{\text {estimation, as }}$ it is impossible to fenice against them, and the others save the trouble and expense of shutting up
and feeding. There is nothing more and feeding. There is nothing more
discouraging than to find hens destroying discouraging
your garden.
Polly Primrose.

World's Champion Milk and Butter Producer.
A. W. Morris \& Sons, of California, hold an enviable position among dairy men at the present time, owing to Tilly Alcartra, a six-year-old Holstein cow
owned by them, having completed her fourth successive year under test, which accords her the largest producer of both milk and butter for four years.
She now holds the world's record for production. It was in her third latation period that she made a record that will be difficult for another cow period at the age of five years, month and six days, she gave under official test 715.4 pounds of milk, making 29.27 pounds of butter in seven days. Eight months after calving she made
473.1 pounds of milk, and 19.23 pounds of butter in seven days. By the end of the year she had produeed 30,451.4
pounds of milk and $1,189.03$ pounds of butter. She is the only cow to give
over 30,000 pounds of milk in one year. During five months of the time that
Tilly was making this record she was Tilly was making this record she was
carrying a calf. After dropping her carrying a calf. After dropping her
fourth calf she started stronger than ever in the producing line, and broke
her previous high record by giving 785.7 pounds of mik and 32.23 pounds o after calving she made 527.7 pounds
of milk and 22.46 pounds of butter in seven days. This record-breaking cow was on a tair way to break her own
record, but she suffered from impaction in the month of February, and fell o
about 20 pounds per day in mill remarkable feature was that she came she had been over 10 months in milk, and was then about six months along
in calf. However, in spite of the mis in calf. However, in spite of the mis-
hap in February she finished her fourth year under official test with 29,826 .
pounds of milk and 1190.43 pounds but ter to her credit. dropped her first calf
Tilly Alcartra when 2 years 6 months and 17 calf
old. In the four lactations she duced $96,586.5$ pounds of milk, making leaving three bull calves and one heifer,
all of which are living a constitution to stand continued high
production and be a regular breeder
$\qquad$
$\qquad$



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Variety Entror Ties dear str,nore variety al any other profe variety in the Because of chores due to and summer, a scarcity of hire ittle or no time sordid and narr To be a suc enough. The w who, while posse faculty, have in they lived sol ailed to obtai wholesome var
but it is true, ecome so eng uties of farm nterest in, and It has been sa ave not only with greater d mind, I believe, rom the one lit There are certa put of our lives each the highe sice of life. Let us never
ittle, if it is on itle, if it is on
Travel is a grea only because of rom ourselves orizon as perha rood reading. eading matter
nissing a weal odity (valued found on th' my Whittier or vords of the 1 ike the Arabs port in our live rown-up boys, occasionally set out with 00 tired or $n$ rom getting out wholesome spor or youth resh and light: boys.

Rare is the so
That has ke
Holding his c

Variety in Farm Life. Editor The Farmer's Advocate:
Dear Sir,-Although there is probably more variety about farm life than almost any other profession we could mention, m convinced that there is not enough variety in the life of the average farmer Because of the increased amount of chores due to winter dairying and stock raising and the rush of work in spring and summer, as well as to the growing scarcity of hired help, many farmers find little or no time for social or religious life, without which their lives must become sordid and narrow.
To be a successful farmer, from the money-making standpoint, is surely not who, while possessed of the money-making faculty, have in their later days shrunken into the veriest shadows of men because they lived solely for one thing, and failed to obtaity to life. It is pitiful but it is true, that thousands of farmers become so engrossed in money-making and so occupied with the labors and duties of farm life that they lose all interest in, and finally all capacity_for, the higher and nobler things.
It has been said that every man should have not only a vocation, but an avocawith. greater dispatch and clearness of mind, I believe if he has some side issue. some avocation to divert his attention from the one line of thought and action. There are certain things which even as busy farmers we cannot afford to leave out of our tives in we would develop and as well as know that varlety which is the spice of life.
Let us never be too busy to travel a little, if it is only one short trip a year. ravel is a great means of education, not of the people we meet. It gets us away rom ourselves and widens our mental horizon as perhaps noting else can do. Led us never be tho busy for a little reading matter is the daily paper is missing a wealth of good things that are, after all, about the cheapest commodity (valued in dollars and cents) to and trying the market. After a hard my Whittier or Longfellow and, in the words of the latter, "the cares which infested the day have folded their tents, Let us never be too busy for a little sport in our lives. After all, we are only grown-up boys, and we will' do our work with greater zest and renewed energy if occasionally we shoulder a fish-pole or get out with the boys on the baseball too tired or not having excuse of being from getting out at least once in a while with the boys in their innocent and wholesome sports. I have known men Who ever seemed possessed of the buoyancy of youth and whose lives were
fresh and lightsome because they had the happy faculty of being one with the boys.

Rare is the soul, fair is the soul That has kept, after youth be past, All the art of a child, all the heart of a
Holding his childhood fast."
Then let us not be too busy for religion to our lives. There tos like an ther day of the week, except that perhaps it brings a little more rest. A change is sometimes better than a rest, and for a man to throw aside his working clothes place ppear clean and well dressed in Sabbath of will surship for an hour on the physical benefit not to mention the social and spiritual good that should result as well. It seems to me that farmers should be eligious and reverent, for they work in partnership with the Creator and have power and skill. Perhaps, after all, there re many who see Him in His great out-of-doors who are never found in the temples made with hands. Let us, as lilers of the soil, be more religious, but let our religion be not a thing of form
and custom, but something that shall

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## (9) Lecarace Mrase

 H RE are the lowest prices on the best-wearing Fence and Gates. Buyindirect from us you get your full money's worth in fence to the middlema PAGE HEAVY fENCE


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uprights 8 inches apart. 20-bar, 60 -inch, 61 c . per rod; 18 -bar, 48 -inch uprights 8 inches apart. 20 -bar, 60 -inch, 61 c . per rod; 18 -bar, 48 -inch,
55 c . per rod. Poultry Netting-Per roll of 150 feet, 24 -inch, $\$ 2.35 ;$
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## phase of potato growing.

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> A Ford car bought part by part costs only $\$ 40$ more than the list price of the complete car as against $\$ 940$ more for the parts of the average car priced around $\$ 1000$ and less

$\$ 940$ - Cost, over and above the list price of the car itself, for enough spare parts to build the average touring car priced around \$1000 and less. \$ 40 -Cost, over and above the list price of the car itself, for enough spare parts to build a Ford touring car complete.
$\$ 900$-Difference in part by part cost of cars.
And remember, both by laboratory tests and actual service tests, the parts of a Ford car have proved themselves superior, part by part, to those of any other car.
Don't these figures drive home what is meant by the low upkeep cost of the Ford?


AN APPLE LOST AT EVERY TICK
Every tick of your watch from now till the end of June records the loss
of valuable apples. This enormous waste can be prevented, and it is a duty every farmer owes to himself THF FMPIRE THIS FRUIT ow is the time to act. A thorough SOLUBLE SULPHUR ARSENATE OF
 LEAD
 Write us to-day about Sprays and
Pumps. Tell us your problems to to gallons of water, and add will advise you fully.
NIAGARA BRANI SPRAY CO., BURLINGTON ONTARIO

$\mid$ make us go
two worlds. Just as we need to practice rotation in
crops to get the best results from the land so in the mental and physical soil we need variety of production. I know a farmer who has grown hay in one field continuously for ten years and grain on another for probably the same length of scarcely worth cutting. If we grow the scame mental crop, year after year, it too
sa
is likely to ruh out. Let us have diversified is likely to run out. Let us have diversified interests, and so our lives shall be pro
ductive, useful and happy. Middlesex Co., Ont.

## Chicken Pointers.

Editor The Farmer's Advocate: Granted that you have your chickens hatched or will shortly have them hat ched. First of all, be in. no hurry to feed the
newly hatched chicks. This point calls newly hatched chicks. This point calls hard a thing for anyone to do to keep from feeding the fascinating newly hatched chickens.
Nature has looked after its own
abundantly in the case of the chicks, and abundantly in the case of the chicks, and
they can take care of themselves for they can take care of themselves for
three days or more without any feed that you may provide. The entire yolk of the egg has been enveloped within the body of the chick before it came from
the shell. The chick must digest the yolk first, and if you feed it, meanwhile, you give its delicate little digestive organs a very heavy handicap indeed.
You can safely wait forty-ei
anyway, and better for seventy-two hours, after hatching, before feeding the chicks. Then start them off with waterfrom a fountain, so that they cannot, bodily, get into the water and suffer therefrom, and give pin-head oatmeal, or
dry bread crumbs. You may feed some dry bread crumbs. You may feed some
hard boiled eggs chopped very fine, if you have them to spare; also cracked wheat or screenings.
Be careful
Be careful to feed only a little at a
time and feed often-five or six times a day for the first week; then down t hree times a day by the time the chicks
are a month old. The hopper method of feeding seems best, having the feed, such as cracked grains, grit, and dry chopped
stuff before the chicks in hoppers- sort of a free-lunch counter to which they may go and help themselves at all times.
For watering, I prefer a simple littl For watering, prefer a simple little fountain made from a salmon can and a
saucer. Simply punch a hole in the side
of the can, say, three-eighths of an inch of the can, say, three-eighths of an inch
from the top, and fill the can with water put saucer face down on top, and turn all upside down, and you have a very
suitable, convenient little fountain that suitable, convenient hittle fountain that
will protect the chicks from getting wet.
For incubator chicks following closely the suggestions and instructions given by the manufacturer. Most of the manufacturers of incubators
and brooders get out quite elaborate and brooders get out quite elaborate
books of instructions on raising poultry. books of instructions on raising poultry.
If your chicks are hen-hatched, do not her or keep her confined in a suitable through the wet grass in the early morning Keep guard against having the chickens that may come up quickly. It is sur with cold rain.
At all times make war against lice. Lice on, a chicken-especially if on the chicken's head-will make a very un-
healthy chicken, indeed, if they do not kill it. The old hen is almost sure to have
healthy lice. Treat her for lice anyway. Us
some of the handy prepared louse killers to be had in packages at your dealers, and, as well, keep the coops clean-you
may spray or paint them with coal-oil. may spray or paint them with coal-oil;
and if the hen can have access to a dustIf possible, give the chickens the
advantage of some freshly on which to forage. lou might sow some seeds, clover or grains of any kind, so
that these, on sprouting, will furnish tender green feed for them to pick and
eat. You can trust the young chicks
without the hen to amongst ard between the rows of corn, potatoes and all garden truck. They will
capture and eat many bugs and worms.



Home Grown Mangel Seed

We have secured a limited quantity of home grown seed, grown in Waterloo County by Mr. Henry Stokes, under the supervision of the Agricultural
College at Guelph. The seed we offer College at Guelph. The seed we offer
is the Yellow Leviathan variety is the Yellow Leviathan variety
which is well known. The last five years at the College the home grown years at the College the home grown productivity the seed of the sam variety which has been imported. Give it a Trial. Price 45c. 1b. postpaid.
SEED GRAIN-We have the follo ing still on hand. Banner Oats, 76 bush. Mammoth Cluster, 75c., O.A.C. 72, 80c., Newmarket, 75c., Early Empire, (ripens with Barley) 75 c ., Early Barley No. 21, 85c. bush., Wild Gbose wheat, $\$ 1.70$ bush., Black Barley, $\$ 1.5$ bush., Rye Buckwheat, $\$ 1.20$ bush Seed Peas, $\$ 2.00$ bush.
Red Clover No. 1, $\$ 17.00$ bush. Tim othy No. 1, $\$ 6.00$ bush., No. 1, Alsyle $\$ 14.00$ bush., Alfalfa, $\$ 16.00$ bush. Write for prices

Terms Cash. Ex warehouse
Bags extra at 25 c . each.
HEWER SEED CO.
GUELPH,
ONTARIO

## CLOVER SEEDS

(Gtandard)


No. 2 (This seed grades No. 1 Purity) $\begin{array}{lr}\text { White Blossom Sweet Clover } & \mathbf{1 3 . 0 0} \\ \text { When }\end{array}$ | O. A. C. No. 72 Oats |
| :--- |
| Marquis S........ |
| 1.60 | Terms, cash with order. Bags east of Manitoba of $\$ 25$ or over we pay the freight.

We quarantee seeds to satisfy or ship back at our expense. TODD \& COOK Stouffille, Seed Merchants Ontario


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## RIDER

[^1]

Gardening for Pleasure and Profit
demands careful selection of seed, for unless you plant the very best seeds you are partially wasting your soil and fertilizer, as well as your time and labor. The safe selection is

## Ewing's

## Reliable Seeds

-the favorites throughout Canada for over Forty Years. Market and amateur garden ers alike preferEwing'sSeeds because they show a very high percentage of germin ation,and produce uniformly vigorous plants of the choicest strains.
If you have any place at all for it, be sure to put in a garden this spring-and be sure, too, that you plant the right seeds-Ewing's. Write for our Illustrated Catalogue and if your dealer hasn't our seeds, order from us direct.
The William Ewing Co, Limited
Seed Merchants McGILL ST.

MONTREAL


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 DET. 2 TORONTO, ONT.

Sees No Hope in Co-operation.

editor The Farmer's advoca

The present appears to be a very opportune time for the discussion of all
topics bearing upon national efficiency topics bearing upon national efficiency
and economy in production and distribu and economy in production and distribu-
tion. And, amongst those questions, co operation among farmers looms up larg on the intellectual horizon of its advo
cates. But, whilst I commend the wisdom of discussing the question to-day, I can not share in the enthusiasm of its projectors. The average man is not of a fore, seek employment where intense mental concentration is not ned Farming is an occupation where a man continually facing difficult problems, re quires sound judgment, and an intimat knowledge of agricultural science and economics. But the introduction of co peration gives the brainy man no act The benefits, if such there be, are common property, accruing to all who marke through the society. And thus, in so far
as the organization would benefit the farmer, to that extent it would attrac hose who reap the reward of othe peoples energy. Pe industry might
gain for a brief period, but sooner or late old conditions would return. People would go back to the land to join the
ranks of food producers until the natural law of supply and demand would bring Much of the enthusiasm for co-opera voluble writers, of the aggregate earnings of the societies. But when these are armers, the individual saving is a me bagatelle. And, besides, in reckoning up hose earnings, the society's prices are merchant. But the man, who to-day buys for cash, purchases from the mail rticles, such as eggs and poultry, dire o the city dealer, saves on these thing all he could hope to procure through
farmers' organization. The largest co armers organization society on the continent, the Grain Growers' Grain Co. of Winnipeg has not made its patrons wealthy, and never will. The regeneration of agricul ture lies deeper than the marketing produce. And until the governments and he man. Ans of this country bring to the farmer the advantages of a higher education, better roads and city con veniences, we shall continue to be fed by the unambitious hewer of wood and
drawer of water, in spite of all the farmers' clubs that can be brought into existence. Huron Co., Ont.

Ensure the Clover Crop by Sowing Plenty of Seed Per Acre
The Coms of Conservation hav a number of farmers, conducting de vision. They report that out of twenty three farmers in the eastern Provinces, only two claim that they were sowing their clover seed thick enough to ensure a good catch, before they commence experimenting. Six pounds was the ave found out that it pays to sow 10 pounds pe acre. Nine of these farmers have started to grow their owner clover seed as a result McLean, of Prince Edward Island finds that on his farm the second crop of hay is always much hicker andin is grown on the farm more seed is usually sown per acre than if cash has to be pai Numerous comparisons have been
made on the Illustration Farm in the way made on the Illustration Farm in the way
of trying out home-grown seed along side of that purchased, and it is found that seed grown on the home farm usually
gives the best results. Therefore, it would be a good idea for every armer
who has a clean field to plan to grow his
own clover seed. The first crop should be cut early so as to give the second,

## CALDWELLS

The scientific farmer has discovered the one WASTELESS and PROFITABLE way of vealing-up or raising

## Caldwell's=Calf Meal

Analysis shows that it contains practically the same nutriment as whole milk, at a fraction of its cost. It is vastly superior to imported calf meals, for the simple reason that the foreign manufacturers must sacrifice quality to meet the heavy freight and duty charges. Like our famous Molasses Meal, our Cream Substitute is guaranteed by the Government, and its analysis is plainly printed on tag attached to every bag
N B.-Ask us to show you how much money you can save annually by using Caldwell's Cream Substitute. Your Feedman handles it. If he is out of it,


The Caldwell Feed \& Cereal Co., Limited, Dundas, Ont.

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Peerless Poultry Fencing


## Dual Purpose Shorthorn Bulls

From dams which gave from 6,000 to $\mathbf{8 , 0 0 0}$ lbs. milk in 1915.
Sired by College Duke =85912=. These bulls are ready for service. Address:

Weldwood Farm, Farmer's Advocate, London,Ont.

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strong for this season's trade. Prize-winners at all the leading ehow, including
championships. Up to a ton and over in weight, with breding and quality unnurpassed
We can supply the wants of the trade, no matter how high the tandard. Stallion,
from 1 year up to 8 years, in - foal mares and fillies.
Torme to suit
SMITH \& RICHARDSON,
COLUMBUS, ONT

## Oualty IMP. CLYDESDALES IMP. Broedlase Streng thened by $m$ )

 tion I can now supply Clyde. stallions with the eig sire required, the rianhed
the most popular breeding. Also Clyde. mares and one right choice French Coach otalion.
JAMES TORRANCB, Markham, On

Clydesdale Stallions and Mares $\begin{gathered}\text { We are now offering for } \\ \text { sale a number of extru }\end{gathered}$ good 'stallions, also mares in foal. Write or call on: JoHN A . BoAG $\&$ son. Queenorille, ontarto



## 172

THE FARMER'S ADVOCATE.
Farming by Book and Farming by Brawn. Editor "The Farmer's Advocate"
 says he has to go into a hotel bar-room to discover how little he knows about farming. He always has a case of enlargement of the Tglands a chance in the presence_of_an arm-chair farmer-and the presence_ofan arm-chair fighter. Seth never trusts himself wittingly in th.
presence of either one or the other.
I suppose there are a great many Seths paying regular taxes in the land. And since looking at the subject at intervals for some time I fancy there will always be a preat many Seths in our farming
fortresses. Perhaps it is a safeguard Mother Nature has thrown out to secure the perpetuation of the animal and plable
kingdoms. There may be inscrutable barriers ahead of the enthusiastic persons who seek to harness all activity to an electric button. This theory would seem
to be borne out by the fact that the farther to be borne out by the fact that the farther
we go from the places where the physical we go from the places where the physical
environment is crudest and manual environment is crudest less vitality we
labor most severe the find in both the human and vegetable kingdoms. It is an established fact, of course, that the natural orders have
depended on the country (as opposed to course,
depended on the country (as opposed to
den early the city) for reproduction from_early
ages. ages.
And so
Seth's vague vindictive sarcasm against sitting-room agriculturists \&may
have a iustification too far off for him to healize its nature but grounded inkone
hat of the sublime truths of existence. Commenting on the fact that very few of the full-fledged Agricultural College graduates turn out to be practical,
successful farmers in the ordinary sense, successful farmers in the ordinary sense,
and magnifying an instance of a whiteand magnifying an instance of a white-
shirted failure who started a smallsized "Experimental Farm" as a commetcial proposition half a mile from Seth's,--my hard-headed friend is by no "If we all become ${ }_{2}$ Professors," say Seth, "who'll do the work?" a young man searching for a suitable helpmeet he had already pronounced views on the subject of the wearing quality of
girls, and had chosen his wife in congirls, and had chosen his wife in con-
formity to that point of view. formity to that point of view.
To say that a man cannot spend four years in the student environment without becoming spoiled for an actual agri-
cultural career seems unwarranted at first view. Seth knows where the trouble lies, though he does not see what causes it. He would talk this way. "You can't
farm in a white shirt and patent shoes." The white shirt and patent leather shoes are merely symbols of an indifference to
results, so common with the type of fellow, he shuns. The student becomes
reckless of results, because he feels that he is looking for facts, and at school, neither time nor money count, in the
sense that they count on the actual farm sense that they count on the actual farm,
where the time spent must vield an income regardless of facts. The farmer must throughout every process. No white shirt nor patent shoes for him until he reaches port. Seth thinks going to college takes out of a man the willingness to be one o
millions of humdrum toilers who must be counted on to till ordinary farms and
furnish the staple foundation on which al the fancy farming grows and preys.
After experiencing the exhiliarating dash of a little sprint behind a spirited t taam,
while an enlivening class look on, to descend while an enlivening class look on,to descend
to the task of following Nell and Jerry
down a never-ceasing furrow is heyond down a never-ceasing furrow is beyond
the ability of the ordinary one-lived Students are for learning, not for doing,
says Seth. Three things are needed more
$\qquad$
2. To be willing to do it withour
thought.
3. To be alule to do it well
$\qquad$
Percheron Stallion Napoleon Britain
 frarmers 'prices. North Malden P.


## This Book Helped Me Improve My Farm

It is the most valuable book I own and it cost me nothing. It has saved me time, labor and money and I've got better looking, more durable and more serviceable buildings than I ever had before.
The first cost of concrete farm improve ments is also the last cost. There's no after expense for paint or repairsno danger from fire, $\operatorname{rot}^{\circ}$ or rust-no trouble of any kind. Besides concrete lowers the insurance rate.
If you haven't a copys of "What the Parmer can do with Concrete", send for one to-day. There's more than 150 pages of valuable bailding information, 52 practical plans, thastrated by diagrams and photodraphs, and corens of other interesting farm facts.

A epp will bo reant to you froo al charter manand
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WOODLANDS BROWN SWISS AND PONIISS
 testing and big producing dame. Strictly high-class. Also Shetland and welsion, ONTARll
GUELPH, BALLAGH \& SON,

ORCHARD GROVE HEREFORDS
OSHAWA, ONT.

## Escana Farm Shorthorns

Raised Hancout

 Hitiowiow See Actual staceb rieses so


Bad Weather Sport Whan rins spilit pons to to didy in

Dominion Hand Trap





## Good Luck

COTTON SEED MEAL CALE MEAL OIL CAKE MEAL
FLAXSEED GLUTEN MEAL POULTRY FEEDS
SEED POTATOES SEED potatoes
SEED GRAINS wister
CRAMPSEY \& KELLY Dovercourt Rd., Toronto, Ont.


| When Buididint-Specity <br> MILTON BRICK <br> Smoun hard Chan-Cut <br> MILTON PRESSED BRICK COMPAN |
| :---: |
| C MAKE YOUR BIK |
|  |
| )upumutiba Frie Bo |
| and |

Seth can not avoid, for the mailman brings them to the door, and Seth does not know whom to blame for sending
them.
"I can at least do this much." he says: "I can stay away from the darned lectures."
The mass of new agricultural findings recorded by investigators is banned in advance by Seth. His objections to these prepared in advance to meet obstreperous fellows who have tried to corner him and cram some of their information down his throat. These objections are presented by Seth before the advancing innovation. He considers them an effectual barricade 2. Is it practica
2. Is it practicable?
able to established conditions is it applicThere will always be a great many Seths They are the touchstone of agricultural science.
Perth Co., Ont. Jas. A. McCracken.

Preparing for Sowing Roots Editor_the Farmer's Advocate:
I have been very much pleased with yourlpaper and the way so many practical subjects are dealt with, and at a time when they should be a great help to a large number of people, and, with your permission, I will send you these few lines on our plan of preparation for growing mangels and turnips.
Our soil, is alfairly heavy clay loam, and we arrange thave the manure applied in the fall for this purpose, and before freezing up time.
In the spring we work the land over frequently with harrows, disk and cultiwe wish to sow either mangels or turnips, and then we drill the ground, throwing fairly deep drills, usually 3 feet apart, especially for mangels. We sow any plow. After drilling, we roll the drill and leave for a week or until we are ready to sow. Then we take the harrows and give these drills a stroke lengthwise, which pulverizes the surface, takes oft any dry crust which may have formed, and at the same time destroys the weeds or any seeds which will have germinated
during the week; and this allows the mangel or turnip seed to be sown in a warm, moist soil in which the capillary for this is always broken for a few days by the act of ridging or drilling, and this gives the root seeds the same chance or the advantage of any weed seeds
which may still be in the ground. This wharrowing of the drills does not level them nearly so much as might be expected, as the ground has become fairly firm on the surface during the week or ten days after rolling.
Having the drills made the proper width to suit the grain seed drill, we can sow two, three or four rows at a time, few acres of roots, and we have found the grain drill very much more convenient and satisfactory than the special root drill for this purpose.
After sowing, if the weather be dry, we use a light roller to inrm few days we use a weeder or light harrow again on the top of the drills, and by this method, followed now for several years, we have been able to get a quick, clean growth
of the plants wanted, reducing the hand of the plants wanted, reducing the hand
hoeing to a minimum. By this plan we hoeing to a minimum. By mangels and turnips ready for thinning althouch sown a week Durham Co., Ont. R. E. Osborne.

## Gossip.

At the Hereford sale of W. J. Davis \& Co., of Mississippi, $\$ 511$ was obtained as an average, ard
of nearly $\$ 100$ over the average of the last event. W. T. McCray purchased
some of the best lots, included among which was the bull, McCray Fairfax, champion at the Atlanta Fair, Vernet
Prince 28 th, went for $\$ 1,000$, which was Prince 28th, went bargain price. No
considered a a
phenomenally high bids were placed,

## ( ) (두) Give her good silage and shell give you big PROFITS

TOU cannot expect your cows to produce a large flow of milk if you keep them on dry feed. Give them rich, juicy silage during the winter, when dairy products are bringing the best price, and they will give a large steady flow of milk. The farmer who feeds silage gets the biggest profits because he is using the cheapest and greatest milk producing feed known.

## IDEAL GREEN FEED SILOS

will pay for themselves during the first winter used. Any farmer who get profitable results from cows. Silage is just as good for beef cattle and sheep as it is for milk cows.
Only one kind of silage pays and that is GOOD silage. Good silage cannot be produced in a "cheap" make-shift silo. Remember, the crop you put in the silo is worth almost as mucb as the first cost of the silo,
You might save a few dollars on the first cost, by buying a "cheap" silo, You might save a few dollars on the first cost, by buying a "cheap" silo, but you will lose many times that amount in poor silage.
It would be foolish to put $\$ 160.00$ worth of silage into a $\$ 175.00$ silo and lose $\$ 75.00$ worth of silage simply for the sake of saving a little on the first cost, when by paying $\$ 25.00$ more and getting a good silo, you the silo.

There are good reasons why the Ideal will preserve the silage better and last longer than other silos. These reasons are fully explained and
illustrated in our silo catalogue. Ask for a copy of our catalogue today.
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50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER
 Shorthorn show and breeding bull in existence. Special offering: Eight bulls from 8 to ${ }^{15}$, monthe.
J. A. WATT






John Milerr, Abbburn, ont. Mytile Sta, C.P.R. \& G.T.R.
Spruce Glen Shorthorns , wais mo wiuw

 young cows in calf, heifers from calves up, and young bulls from 9 to 18 months of age, richly
bred and well fleshed. In Shropshires we have a large number of ram and ewe lambs by

 Spring Valley Shorthorns hatin way

 4 H dxa maty Maple Shade Farm Shorthorns The producta of this herd have been it Can alway supply a good young bull at a price which will very strong him wemand. Therth the money. Not many temales for sale, $\begin{aligned} & \text { Brot calin, G.T.R., C.N.R. Myrtle, C.P.R. W. A. DR YDEN, Maple Shade Farm, Brooklin, Ome }\end{aligned}$




## DLEASURE CRUISES or

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svectil FACILITIES FOR toviasts. mont Ballinit from halifart

Ine Royal Man Steam Packet co
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Looal TIOKET MaEMCles.
ALLOWAY LODGE STOGK FARM
Angus, Southdowns, Collies

Southdown Prize Rams ROBT. McEWEN, R.R.4,London,Ont Elm Park Aberdeen-Angus at Chicago International Show. Was sired by ble Parkk Ringleader 5 tht 106676 . We have two full
 deen-Angus cattle, We have bome bulls and James Bowman, Box 14, Guelph, Ont. The Glengore Angus we have still left a couple of nice yearling males sired by Middle.Brook
Prince 3 3d tor seade at reasonable prices. Particulara on application \& SONS, R.R. No. 1, Erin, Ont.
GEO. DAVIS Tweedhill - Aberdeen-Angus. Choice aloo females. If you want anything in this line, Jameo Sharp ${ }^{\text {R. }}$ R. R. 1, Terra Corta, Ontario
Cheltenham, C. P. Rr, \& G. T. R.
Beaver Hill Aberdeen Anguen Bulle fit tr

Aberdeen Farm has for present offering
J. W. Burt \& Sons
R. H. Harding, Thorndale, Ont.

## 

for big milk produ
on rising ${ }^{3}$, won 2 nd at Guelph the onlurt tay in
big class. P. Christie $\&$ S Son, Manchester, Ont.
Shorthorns $\begin{gathered}\text { bulls, females. reds, roans, size, } \\ \text { ouality } \\ \text { Brecedins milkers }\end{gathered}$


Questions and Answers.

## Miscellaneous.

Shorts. for Pigs.
-Is' high-grade shorts at $\$ 25.00 \mathrm{per}$ ton a good economical feed for young
pigs from six weeks old up to the age pigs from six weeks old up to the age
of four and a half months? Which would be the better way to feed shorts-wet or dry? Consider oats at 45 cents per bushel, barley at 60 cents.
Ans.-Shorts make a splendid feed for young. pigs, and, at the prices mentioned, would prove economical. Some feeders
prefer mixing finely ground oats with prefer mixing finely ground oats with
the shorts, but pigs will do well on shorts and skim milk up to the time they are four months old. After that age heavier feeds should be added. Both methods have their advocates, but for young pigs it would appear that the shorts shou it is fed wet, although for older pigs it is
doubtful which method gives most satisfactory'results.
Lawful Fence-Outlet for Drain. What is a lawful fence at present in Ontario? Is it supposed to hold sheep, pigs or calves? We have a railway fence
through our property of about 1,500 through our property of about 1,500
yards that is seven strands high, three yards that is seven strands high,
feet eleven inches from under wire to top wire. Our sheep run under the fence several places. Who would be responsible if any of our stock got killed?
We have a couple of tile drains which
run to the public highway. Is the munirun to the public highway. Is the muni cipality supposed to give an outlet across the Anghay?
Ans.-1. Each municipality has th power to set its own standard on the cler of your township regarding this matter If the stock get through the fence and are killed, we believe that the railway
company would be responsible if they company would be responsible if they
had previously been notified that the hence was out of repair
2. If the public highway affords th natural outlet for the water, the muni cipality would give an outlet, but the person or persons directly benefited would be required to pay their share of con-

Working a Farm on Shares
owns a farm and lets it on shares to B. A furnishes all the stock and imrepairs, such as plow-shares and cultivato teeth and pay for veterinary bills, taxes workinedt, ec.ic As B gets one-third for all the meals for threshing? Who is supposed to furnish the churn, butter have to help pay for threshing and silo

Ans.-A properly-executed agreement covering all these points shculd hav been drawn up at the outset. As a
understand the agreement, $A$ is to ge two-thirds of the proceeds of the farn for his investment, while. B is supposed to have one-third of the returns for his and board any hired help he might require. As threshing partially come under this, it would be expected that board the men assisting in this work Repairs, taxes and other expenses, by both A and B, according to thei share of the returns. The same would apply to the equipment for making
butter. A should pay two-thirds and E butter. A should pay
Killing Willow Sprouts-Sweet Clover year to cut soft-maple basswood willow sprouts so as to kill them at the
2. If sweet clover and oats were sow
in the spring would the clover attain
sufficient prowth to be of value for
sufficient growth to be of value
pasture this year?
mend sowing with oats and sweet clover
Ans-1. The time of cutting does
not appear to have much effect on killing the roots. It is claimed that by
boring a hole into the stump, filling it with salt and then plugging it, the sprouts
will cease o grow
2 . No doubt but that there will the a certain amlount of pasture, but it win
depend somewliat on the season.
more or less smothered by the sw
clover.

## Users here state the FACTS !

Write for Illustrated Booklet explaining the reasons why EMPIRE MECHANICAL MILKERS

## are good for the Cows

as well as for the owners
Here are the written statements of some dairy farmers who have used the Empire Mechanical Milker long enough to be able to judge its effects on the cows
From Chas. Bacon, Cooper, Ont.
,
From C. W. Dracup, Harold, Ont.
We haven't had a bit of cowpor as in than by the hand milking. We haven thad a bit of cowpox as in other years, and I Teineve seem to like it ; in fact I have known them to bawl to be milked From John Detlor, Stirling, Ont.

Aaron Wagler, Baden, On
From Aaron Wagler, Baden, Ont
From J. T. Prescott, Sussex, N. B.
We have miled 37 cows in 40 minutes with two double units,
From M. C. W. Kay, Sussex, N. B.
路
From Geo. Willison, Woodstock, Ont.
From M. G. Ransford, Clinton, Ont. :
has proven perrectly ham,oss to he ane
These are only extracts from a few of the scores of letters from purchasers which tell enthusiastically how the Empire Mechanical Milker saves time-cuts down expenses-improves the qual.

Our new Illustrated Booklet explains how the Empire Mechanical Milker duplicates the natural action of the sucking calf, and is actually better for the cows han hand miking.

THE EMPIRE CREAM SEPARATOR CO.


THE EMPIRE CREAM SEPARATOR CO. OF CANADA, LIMITED Dept. C MONTREAL
please send me Booklet on Empire Mechanical Milkers.

## Twenty Imported Bulls


 Burling ton Jet, G.T.r. J. A. \& H. M. PETMIT

 SHORTHORNS SHROPSHIRES CLYDESDALE

WM. D. DYER, oshawa ontario


The flax prominence Europe. Fo wors produce As a result shrinkage in during the have more
year and year and material.

Gossip.
The flax crop of Canada has come into prominence more than ever this year on
account of the losses of the flax fields in Europe. Forty-four per cent. of the orld's supply of this valuable fibre plant was produced in countries now at war As a result there has been an enormo: drinkage in the world's supply of tiax ave more than doubled during the past ear and spinning mills are greatly concerned for their future supply of raw material.
From the days of the earliest settle nent flax has been grown along the t. Lawrence and in Western Ontario end spun imever this crop has not bee ears, he with farmers, it being claimed hat it is particularly hard on the land cientific investigation does not bear this theory. Flax is a quick grow g, surface feeding crop, and as such ood of the upper six inches of the soil An average crop of flax, however do ot take as much total plant food from the soil as an average crop of the deeper ooted cereals, such as wheat, oats and barley. This fact has been establishe
 carrm, Ottawa.
Farmers would be well advised to pay more attention to this crop from now on Prices now being offered by flax mills . grees to take the responsibility harvesting the crop, a feature which will tend to relieve the serious labour situation confronted by many farmers. Eve rown with an assurance of a ready market Linen mills in the United States are offerag as high as $\$ 10.00$ per ton for good Canal It Man. straw ther al the for grown be handed by Canadian ax has a very important economic value at the present time. Flax fibre is he raw material of the spinning mills and in yaills the raw maternal of inens. Flax devcloped to the limit Is possibilities will probably produce a reater amount of increased wealth than any other plant grown in Canada, and iven to its molse attention should be rices toits cultivation here. At present lax runs between $\$ 125.00$ and $\$ 150.00$ more than four times the export value al crops, and prices are kely to go higher for the best fibre. hax mill owners and farmers will cooperate in placing the flax industry on a permanently profitable basis, a valuable Canada's growing export trade
The Dominion Minister of Agriculture, recognizing the present importance and
future possibilities of flax as a farm product has established a flax fibre Experimen connection with the Dominion ${ }^{2}$ e griaduate of the Ontario Agricultural charge as Flax Fibre Specialist. An extensive series of experiments has been planned to cover all the provinces of

Good Horses at the Stud. On another page in this issue is illustrated the Clydesdale stallion Commodore (imp.) [9596] 14633 , a massive, thick, He is royally bred, a son of the famous Baron O'Buchlyvie and he by Baron's Royal Gartly's Heir so on both sides he ${ }^{8}$ bred in the purple. He was imported by Smith \& Richardson of Columbus, Ont., and has stood at Jarvis, Ont., for five years where he proved a sure getter of
choice Choice foals. He is now owned by T. J.
Berry, Hensall bis stables this vear at $\$ 15$ toand at He stood first at Gear at $\$ 15$ to insure. when rising 3 years old. He was second 1913 Toronto National in a class of 11 in 1913. He was third at London the
same year in a class of 12 . He has also and a second at Hensall. sound second at Hensall. This horse is his district. Mr. Berry also has for service at his stati,s the great sire King Thomas and the bi, simooth horse Cumberland's


## Empire surpien System



## Every Modern Convenience in the Farm Home Running Water for Every Farm Need

THY not provide your farm home with just as good conveniences as any city house? It can easily be done at most moderate cost, and it will not only provide greater comiort for your family and lighten burdens, but whill bath erease with all fittings-running hot and cold water in the kitchen and other part of the house, in the barn and outbuildings. Do away with the old, unhealthy inconvenient outdoor cesspool and water-lugging methods,

## SEND FOR FREE BOOKLET TO-DAY

-describing the EMPIRE SYSTEM. Write us your requirements, and we will send you full particulars and the cost of a system adapted to your particular neede.

Outfit includes bathroom fittings, kitchen sink and hot water boiler for range, Pneumatic Pressure plant and all piping complete. Price, $\$ 225$, or more for extra
fittings. NOW is a good time to find out about it. Let us send you a free estimate.
Empire Manufacturing Co., Limited East London, Ontario

## THE AULD HERD

Two good young bulls for sale, one fourteen and one seventeen months old, also a couple younger. Intending purchasers met at station on request.
A. F. \& G. Auld, R. R. 2, Guelph, Ontario Maple Grange Shorthorns purcinghand

Owen Sound, Ontario $\qquad$

## Shorthorns

ure Sootch and Scotch topped-Booth. Aloo five ${ }_{c}^{\text {cb }}$
mong bulle
from ten to twent
 G. E. Morden \& Son, Oakville, Ontari

Willowbank Stock Farm Shorthorn Herd Eatablubed 1 185 established herd has at the head the two great bulls: Imported Roan Chief $-60865=$ a Butterfi, and the prise-winning bull, Browndie
oi either sex. Splendid condition. Good
Good Meadow Lawn Shorthorns $\begin{aligned} & \text { We are offering a choice lot of bulls at very } \\ & \text { reasonable prices. An exceptionally good on }\end{aligned}$ sired by Clan Alpine 2nd, No. 88387, G. D. Donside Alexandra (imp) No. 59513, and any one want fellow that attracts attention at first sight. G.T.R. \& C.P.R.,
f. Ewing. Elora, Oni

$\square$Pure Scotch in breeding, we have an exceptionally choice lot of bulls for this beason, trade, ranging in age from 8 to 15 mont
Allos ram and ewe lambs of first quality.
Pleasant Yalley Farm Sherthorns waw wid tave
or use on grade herds. Some sired by (Imp.) Loyal Scott; also females. Write us before buying.

SHORTHORNS
 pricing them low, as it is getting late in
the heanon young ocowe to offerw heme militers and
ing familiea. Freight-paid.
Stewart M. Graham; Lindeay, Ont. SHORTHORNS
A few choice bull calves for sale. Would orice a few females. Inspection solicited J. T. GIBSON, Denfleld, Ont.

Northlynd R.O.P. Shorthorns and Jergey
Preent offering: one shorthorn bull old enough for Present offering: one shorthorn bull old enough for
trice, whoee
crandam in
gix zrandam in eix yearly teste' made an average of
ver 8,500 lbe. mill, teeting over $4 \%$ in an average A. A. Jack. Downsview, Ont.
Shorthorns and Swine - Have som itho cows and helfers of ohow material., some with alves at foot. Aleo croice No. 1, ELORA, ONT Burnfoot Stock Farm, Caledona, On purpose Shorthorns. We offer now a handsome roan but, calved Aug. 13, 1915, out of Jean
Lassie, the champion 2-year-old in the R......an
sire as good. S.A. Moore, Prop., Caledonia,Ont For Sale ${ }_{\text {months old, from }}^{- \text {Five }}$ Shood milking dams Two red and 3 roans; prices right Also one good
roan bull, 8 mos. old, a Campbell Rosebud, a right (
good one. Write us, or better, come and see.
JOHN SENN \& Son. Caledonia, R. R. 3.

'TOP dress all your crops with Nitrate of Soda alone, no matter what other fertilizers you may have used. 100 pounds to the acre for seeded, and 200 pounds to the acre for cultivated crops will do the work. The increase will yield large profit over the cost.

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Adopted by the best dairies in the butter firm-even-consisten the butter firm-even-consistent buttor and blgger pronts


Holstein Heiler Calves

 CHOICE SELEGTED SEED CORN Wieconsin No. 7 . the best Dent corn in the worlc
Germination trst 95 per cent. and over, 82.25 po $\underset{\text { Rodney }}{\text { GLENORO STOCK FARM }}$
Walnut Grove Holsteins gixaty yatap and
 C.R. JAMES, Langstaff P. O., Ontarí

## 19 BULLS--HOLSTEINS

From 18 months down. Grandsons of
"King Fayne Segis" "King Segis Pontiac,"
"Kay "Rag Apple Korndyke 8th"一the best
of the breed. Write us giving particular's of the breed. Write us giving particularg R. M. Holthy, R.R. 4, Port Perry, Ont Lyndenwood Holsteins


THE FARMER'S ADVOCATE

Questions and Answers Miscellaneoue.

## Linseed Meal for Calves.

 Which is better to feed with skim or linseed meal? Should it be fed cooked or raw?Ans.-Linseed meal is used in pre alves. It may be fed meat for young hough making the meal into a jell with hot water and then adding it to the After the calves are three or four month old, feeding the meal dry along with
other concentrates will probably give satisfactory results as giving it in the satisfac
milk. $y$

A Siphon to Draw the Water.
I have a well on a side hill and I want to pipe the water twenty rods. Th
outlet will be lower than the bottom the well.

Kindly explain to me in the system and how to have it fixed to get the pipe filled with water to start it from time to time in case it stops. who has a system?of this kind working satisfactorily? Ans.- - If there is no leak in the of supply the water should continue to flow satisfactorily once it is started.
2. The principle is to The principle is to have the de
livery pipe longer and the outlet lowe livery pipe longer and the outlet lower
than the pipe in the well. All joints in the pipe must be air-tight. The
pipe is filed with water to statt with and pipe is filled with water to start with and
when the water starts flowing from the delivery pipe it tends to cause a vacuum which draws the water from the source and water should continue to flow so
long as the supply lasts and the pipes are
 for filling the pipes to stard the system
working, or a pipe supplied with a stopworking, or a pipe suipplied with a stop-
cock may be attached to the highest point in the system and can be used for
filling the ipes with wate hiling the pipes with water. The attach-
ments would have to be air-tight and air prevented from entering the pipe
3. We cannot recollect just at pres
ent where this system is being used.
Building a Silo.
$\square$

2. How many yards are there in onc
twentieth of an acre?
3. Holstein cow had lice during the
winter and since then there is small
sores on the neck and shoulders they
seem irritating. I have been using oil and boracic acid. What is the cause an
Ans.-1. A silo of the dimension
mentioned mentioned would hardly be practicable,
as there would not be sufficient depth to
secure weidt secure weight enough to make yood
silage The Walls would be strong
enough and by addling 12 feet of cither
$\qquad$
$\qquad$
$\qquad$

Wherever and wion must hen evectultem

Founded 1866

N $\qquad$ 10
 EVERGREEN STOCK FARM - REGISTERED HOLSTEINS


 | Pioner |
| :--- |
| S. G. \& ERLE KITCHEN, St. George. Ontarto |


Fo Sale =evex Mavi Tivi
M. L. Haley, \& M. H. Haley.


## 36 Hanad of Holstein Cattle

Mr. C. C. Kettle, of Wilsonville, Ont., will sell by public auction,
his entire herd of show-ring and high-producing Holsteins on

## TUESDAY, MAY 2nd, 1916

Included in this offering are several first prize winners at London in 1915, and several have been prize-winners at Toronto Exhibitions. The This herd consists of descendants of such sires as Starlight Schuiling De Koi, Grace Fayne 2nd, Sir
Colantha Sir Abbekerk

Trains will be met at Vanessa Station, T. H. \& B. R. on day of sale. onnections made at IVaterford, M. C. R. and G. T. R. at Brantford Catalogues ready on April 20th

OAK PARK STOCK FARM

## CHOICE HOLSTEIN-FRIESIANS





## King Segis Pontiac Paul 15940

 $W^{\mathrm{E}}$ have for sale a few sons of the above bull, ready for service, and whose dams are largeKING heavy producing cows, Here is an opportunity tor get the blood of KING SEGI and
THE PONTIACS at reasonable prices.


## Lynden Farm Holsteins <br>   to May Echo Sylvia, 36.33, on sire's side. Also King Korndyke EVergreen, sired by son of Pl Pontiac Artis. He has 7 dams in pedigree over 20,000 Ibs. milk each in one year. Also a few bred young females. Write for prices or come and Bell Phone CATTLE

D. C. Flatt \& SON, R. R. 2, Hamilton, Ont. HOSPITAL FOR INSANE, Hamilton, Ont. For Faile. Holstrin pulis



 CTO OUEEN CITY HOLSTEINS m W. W. Whale \& SONS, Goldstone, Ont.

APRIL 27, 1916
TheMart in Farm DITCHER and Road CRADBIR


For this small sum you can own
this wonderful Ditcher and Grader -a necessity on every farm-it will clean out your ditches-run the water off your low lands-dig your tile drains to 2 or 3 feet. It will do in one day the work of 50 men with picks and shovels. It pays for itself with its first day's work.


ASuro
PrizeWinner Windsor 1 Dalpy


| Dr. Lawrason's Mexican Liniment |  |  |
| :---: | :---: | :---: |
| FOR COW ITCH |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

JERSEY B ULL

|  | clinton, ont |
| :---: | :---: |
| dos eneys |  |

## dato den me bull. D den

$\qquad$


THE FARMER'S ADVOCATE.


Grease Sinks In Butthat makes no difference if you use Campbell's Varnish Stain on your floors and woodwork. It dissolves grease shows a preasy board the inde it a picture of the same board after Campbell's Varnish Stain has been used. The grease It comes in a yellow can with the famous camel picture on it. Sold everywhere.
Ask your dealer for

## CAMPBELL'S VARNISH STAIN



GLADDEN HILL AYRSHIRES Some cono bill of breeding age frow


Brampton Jerseys
$\qquad$ JERSEYS $\quad \begin{aligned} & \text { from the Island of Jersey. Several cow in the the herd imported } \\ & \text { and others now under official test. } \\ & \text { and }\end{aligned}$


## 178



Tower Farm Oxyord Sheop, Chamion




 Pine Grove Yorkhahreeo Bred from prine Sanada. Hye a choire loto y young pistor both Sitaranted antiefation. Son, Streetsyille, Ont. Townline Tamworths we can supply

 Lakeview Yorkshires if yon wivt a


Questions and Answers. Miscellaneous.

Sheep Shearing Machine.
Does shearing a sheep with a power
clipper injure the wool for the following year? I have a large flock and would like to know if the Machine
proves satisfactory. Ans.-The power clippers are used by many sheep owners, and we have
never heard complaints of the wool never heard complaints of the wool
being injured when the work is carefully done.

## Sawdust For Bedding.

If sawdust is used for bedding, will the soil to which the manure is applied
be injured? I have been informed that sawdust is harmful to soil.
Ans.-We think not. Sawdust used
as bedding absorbs and retains manure liquid, but it does not add humus to a soil to the extent that straw does
On heavy clay, sawdust in itself may of soil, but in light soils an applica-
of
of tion of a large quantity of sawdust
might be a disadvantage by keeping the soil too. open.

Cow Gives Thick Milk.
A year ago this spring we bought cow, due to freshen Nove 1. They told
us she was used to being milked up us she was used to being milked up
to about six weeks before freshening to about six weeks before freshening
About three months before her time he for a while, thinking it would get all right, but it didn't, so we dried her up
When she freshened a again she did we and we saw nothing of the trouble fo
two or three months, then one-quarte two or three months, then one-quarter
of her udder went the same way again It would last about three milkings and would get are right. This occurree
two or three different times. The first we notice it, is in the strainer or separator. Would you kindly let
us know if the milk is good for use between times? What is the cause
and also the cure, if any? She is a good and also the cure, if any? She is a goo
cow, and we would not like to part Ans-The thick or stringy milk possibly milk which frequently accom-
the mer mind pany an inflamed udder. The infamma
tion may be caused by an injury or may appear without any appreciable
cause. If the affected quarter is swollen. cause. if thotecter quarter vinegar, then rub twice daily with goose grease an
spirits of turpentine. Give the cow purgative of $11 / 2$ lbs. Epsom salts, and
follow up with a teaspoonful of saltpetre in a pint of water as a drench
daily for a week. The milk should be all right for use when it appears normal.
Action of Lime on Soil-Skim milk 1.W for Horses.
carrots in advise growing a horses, or would it be justifiable? 2. Please explain action of lime on air slaked, ground limestone
Would it ho to feed it to horses?
Have 4. Where could I get the book Farm Management by G. F. Warren ${ }^{2}$
Ans.-1. Carrots are very mut
relished by horses, and are piven th
$\square$

APRIL 27， 1916
Cure Your Cows of Caked Udders


3 APPLICATIONS GUARANTEED

DOUGLAS \＆CO．，NAPANEE，ONTARIO

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Where are you ahipping now？
And what are you getting for your cream？
We want more Individual ship－ ero and more men to gather crenim for writ
Silverwoods Limited LONDON，ONTARIO

CREAM WANTED
We think we have the longent experience．
We try to give the best service We need your cream and will make it＂worth your while＂to particulars．${ }^{\text {us．}}$ A card brings
Toronto Creamery Co．，Ltd． TORONTO
CREAM WANTED Ship your cream to un
we eupply expre．
We remit weekly．
higheot market price．
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## CREAM

We are prepared to pay best price for cream
at ail eeasona of the year． We pay expreas chargen and furnieh cana． WESTERN DAII RIY，LIMITED

## CREAM

 THE BERLIN GREAMERY CO． Berlin，Canada

Sarinia Creamery
Payg express，furnishes cans，and remits weekly
Pays Highest Price
Wite for particulare．
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## Guarantess you a high－priced

Cor ct．every day of the year
Referenc：Sank of Nova Scotia
Get his o，AT IT AGAIN
Fen and Gates
D7A East म $\quad$ HE FENCE MAN＂


## City

kitchen luxury in the country The city woman has her convenient，ever－
rendy gas stove or coal rendy gas stove or coa Why shouldn＇t yo Why shouldn＇t you
have the same comfort with a coal－and－wrod OIL，combination？Get ＂The Stove Problem
Solved＂and read all Solved，
about it．

## This Chancellor OilCombination is a wonderful new creation

With one splendid range are combined the finest coal and wood range，the chancellor， with the best Oll stove built．It＇s the one great，new advance in stoves in the last 50 years．It＇s the one satisfactory all－year－round cook stove．

The Gurney－Oxford Chancellor is the finest and on with a turn of the handle．No bother with
dempers．Gives exsectly the heat you want for any possible product in the stove world to－day．Its beautiful blued－steel construction，rugsedly braced for many years of work，with hand－set steeple headed rivets，rich but simple niokle trims，makes it a the＂Chancellor＂bespeaks the aristocrat in stoves．
Our patented system of dividing the flues compels he fire to heat every cover alike and，further，guar－ antees that every inch of the oven gets the same heat，producing splendid，even baking，not for while or now and again but alvays and for a lifetime．
The＂Economizer，＂a patented draft－control， cempers．Gives exacty the heat you want for any 5．Holds a coal fire tor 36 hours．

Fire box，special deniga，is fitted with uniqu Duplex Grates that fet the utmost heat from the fue you wish to burn，either wood，hard or soft coal． The warming closet，broiler top and the beauti－
ful enamelled surfaces all lure one to cools on the ful enamelled surfaces all lare one to cook on the
finest Range built，especially as prices arenow lowrer．
The Oil Extension is every whit as sutiofactory． You can use it at the same time as the main ntove if desired．Special construction fuarantees so oi smell．The white enamelled ohimnoym concentrate the intense heat and permit no waste．
Large，level，table－like top yery handy in any kitchen，yet the＂Chancellor＂Combination Oil is compeor and takes less room than two separate stoves．Aiso，you get 100 days after buying to decide whether you＇ll keep it or get your money back．Could you be protected further？

## New Catalogue＂：The Stove Problem Solved＂：Get it

> A splendid guide to stove buying compiled from 70 years' suceessful experience in making quality stoves. Gives complete particulars of the "Chancellor Oil Combination" above and also of the complete line of Gurney-Oxford Stoves, Ranges, Heaters, Gas Stoves, Boilers, etc., etc., and quotes new, low
> GURNEY FOUNDRY CO. Limited, ${ }_{814}^{\text {DEPT. TORONTO }}$
> Abo at MONTREAL, HAMILTON, WINNIPEG, CALGARY, EDMONYON, VANCOUVER.

## STAMMERING




SEED GRAIN



## Seed Potatoes

New Brunswick Grown Irish Cobbler $\$ 2.25$ per bag，Delaware，$\$ 2.10$ per Crampsey \＆Kelly，novercourt Road，Toronto
IStrawherry and Raspberry Plants







[^0]:    Wounded Brit:sh Tommies,helping a farmer in the Western Europe War Zone. Photo Underwood Underweed.

[^1]:    for many years.
    Elgin County, Ont.

