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ut Alpha will save time, money and labor for you.
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and the greater amount of worl you could do if you had and the greater amount of work you could do if you had an engine of
your own would soon pay the cost of an Alpha. your own would soon pay the cost of an Alpha.
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## - GUELPH, CAN.



# The Farmer's Advocate and persevere Home Madiazine established SUCCCEED Home Magazine 1866 

## EDITORIAL.

Keep the corn clean with the horses and cultivator
Too many rains show the necessity for more drains.
Canada is in this war-not one political party in the Dominion.

The farmer's problem this fall will be one of getting plowing done.
Food is as necessary as fighters, and cannot be produced without men.

Keep up the supply of comforts for the soldiers. The need is still urgent.

Authorities on the subject are agreed that a scarcity of live stock will prevail in all countries after the war.

Here is the way the farmer puts it up to his neighbor "You help me and I'll help you, and we'll get our crop off all right."

Indications point to the greatest need of increased crop in 1918, and from now until it freezes up this fall is the time to prepare.

If all Canada made such an effort to do its part as rural Canada is making, we would more nearly approach the real strength of the nation.

Those who think of setting prices should study the effects such a policy has had on Canadian cheese production and endeavor to avoid mistakes.

Prof. G. E. Day advises live-stock breeders to "carry on." This has been a good motto at the front, and is just as useful and needful here at home.

Some seem to think the farmer has no right to own an automobile. As a matter of fact, his is the business and life which can make the best use of a car.

There is some objection to the Conscription Bill in rural districts on the grounds that it gives no definite assurance that all farm help will not be taken.

The Dominion Government might well consider the removal of the duty on tractors coming into this country. If it is so necessary that our farmers produce why not make it as easy for them as possible?

These who are trying to change Ontario's system of farming find the Ontario farmer somewhat of a business man. He has adjusted his operations to meet conditions of labor and market and cannot change very rapidly.

Dr. C. A. Zavitz, Prof. of Field Husbandry at the O. A. C., says Ontario should sow at least one million acres of winter wheat this fall. Now is the time to get the sod ready, to clean the summer-fallow, and to lay
other plans.

One outcome for good in connection with the help. the-farmer propaganda has been that the general public ave been brought to the point where they are beginning o give the farmer credit for knowing something about his own business.

Those who cut hay early in Western Ontario found considerable difficulty in finding any sun to make it. If the Ottawa Valley and the East could have had some of the rain Western Ontario has experienced things might lave been a little better distributed.

THE FARMER'S ADVOCATE.
The Farmer's Advocate

AND HOME MAGAZINE.


Water Hemlock.


Nature's Diary


|  | It apeate as if the -toms, leaves and flowers of this |
| :---: | :---: |
|  |  |
|  |  |
|  |  tubers are ectainls doulls. The astise primedipe is |
|  | the akaloid "icutine, and the tubersane on rid in thin |
|  |  |
|  | cow in tituedminute. The mmat prominent symptom- |
|  |  |
|  | and fripht ful cone uls ins ending in death. In man then |
|  |  |
|  | it volent comiting and colicky pains in the carly stage |
|  | chiddren, are not infrequently poisoned by eating the tubers. If there are comparatively few dants of Whate |
|  |  |
|  | Hembek present in danp land io which cattle ham atcess the should be pulled out and bumt. If then |
|  |  |
|  | are left laing on the eround the mave of course, be |
|  |  |
|  | caten or trampled by the attle in whid batter san poisoning mat result from the drinking of the wate the comtaminated wit riation- It the plame |
|  |  |
|  |  |

Courage Brother Farmer, Keep Climbing.
voung chap why it wat that some of the f.rmers, that
knew were poer and come of thene were what I then
thonght very wealth. They all lised in the thought very weath his. They all lisele in the s.an and were engaper in the some lines of production,
 But further theught and a litte ernereation have
led me to helieve that I have discovered several possible causes for this condition of the peopele of the world in gencral and particularly of ourschos of the farmin. of most of us about porerty being cril. A man may he
 lead him into a line of action that results in prosperity and well-teing. The porperous man hat oppertunitic
 of has ing thingo thous will of memon- It just a cate twing witloum theme shat Proment our drowth, or


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Comrake is ome thing the furmer, of any wher husi- antande of times to.
$\qquad$ the some hing in ol roung ma sit luated as more than


Grain Rations for Swine

## THE HORSE.

Itchy Legs.


Caledonia (Imp
LIVE STOCK.
Meals and Mixtures for Use in Self Feeder.
mixture of whele orr pround krains or orther millteedy


THE FARMER'S ADVOCATE.
Founded 1866
blood meal is recommended, say at the rate of 1 pound of tankage to 6 pounds of any of the afore-mentioned
mixtures. Where whole corn is used one pound of tankage could be added to every eight of corn.

Wool Grading and Sales in Quebec. Editor "The Farmer's Advocate
The wool grading and sales recently completed in Quebec by ten associations have once more demonstrated Quebeceften associations have once more demonstrated products. The average price obtained for the total output this year, including all grades, was just 11.57 cents higher than the average price received last year, made when 40 to 45 cents a pound was the ruling price in country districts.
The entry of the United States into the war had a great tendency to inflate the price of domestic wools, can buyers to compete on an even footing for Ouebec wool, while the shortage of bottoms for carrying the Australian product assigned by the British Government for the use of Canadian mills had a tendency to place a new value on home-grown wools for home manufacture, and mad

Through the the full benefits of the advances in wool prices. Without the associations the greater part of the wool would have been in the hands of the local dealers before the ditions, and he would have received little menefit conthe present market
In the matter of sale six of the associations in Quebec made a joint offering of $\mathbf{1 3 6 , 6 8 6} \mathrm{lbs}$. at Lennoxville on May 26 . At this sale lots varying from 5,000 to 30,000 lbs. in extent were offered, and although one firm eventually secured the entire offering there was nothing amounts desired. The remaining associations sold their offerings individually with hardly as good results as those who sold collectively. At the Lennoxville sale the


Prices for the other associations ranged between the following figures

| Medium combing | 55 tQ $521 / 4$ cents |  |
| :---: | :---: | :---: |
| Low medium combing. | 54 to 51 |  |
| Coarse combing | 53 to 481/4 |  |
| Rejects and black. | 40 to 35 |  |
| Tub washed. | 70 to 63 |  |

With perhaps one or two exceptions the associations have shown considerable improvement in the preparawas organized during the winter and the association was organized during the winter, and the other associa-
tions, with one exception, have increased their membership and the amount of wool marketed.


| Statement of Wool Grades. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name of Association | $\begin{aligned} & \text { Med. } \\ & \text { Clothing } \end{aligned}$ | Med. Combing | Low med. Combing | Coarse Combing | Black and Gray | Rejections | Tags | Miscellaneous | Total |
| Pontiac Richmond | 162 | $\begin{array}{r} 21,230 \\ 2,615 \end{array}$ | $\begin{array}{r} 17,362 \\ 8,418 \end{array}$ | $\begin{array}{r} 5,916 \\ 19,827 \end{array}$ | $\begin{aligned} & 362 \\ & 335 \end{aligned}$ | $\begin{array}{r} 761 \\ 3,634 \end{array}$ | 266 57 | $\begin{gathered} \text { (washed) } \\ 405 \end{gathered}$ <br> Damp | $\begin{aligned} & 46,302 \\ & 35,048 \end{aligned}$ |
| Compton <br> Sherbrooke. <br> Stanstead. | 75 | $\begin{array}{r} 11,389 \\ 11,442 \\ 8,411 \end{array}$ | $\begin{array}{r} 11,984 \\ 6,117 \\ 8,461 \end{array}$ | $\begin{aligned} & 9,137 \\ & 1,438 \\ & 1,374 \end{aligned}$ | $\begin{aligned} & 196 \\ & 101 \end{aligned}$ | $\begin{array}{r} 2,013 \\ 754 \\ 1,373 \end{array}$ | 44 231 131 | 119 | $\begin{aligned} & 34,686 \\ & 20,253 \\ & 19,851 \end{aligned}$ |
| District of Bed ford. <br> Argenteuil | 612 | $\begin{aligned} & 6,6161 / 2 \\ & 1,400 \end{aligned}$ | $\begin{aligned} & 8,908 \\ & 6,278 \end{aligned}$ | $\begin{aligned} & 1,621 / 2 \\ & 5,299 \end{aligned}$ | $\begin{gathered} 2461 / 2 \\ 349 \end{gathered}$ | ${ }_{1,365}^{3521 / 2}$ | $\begin{array}{r} 159 \\ 26 \end{array}$ |  | $\begin{aligned} & 18,521 \\ & 14,717 \end{aligned}$ |
| District of Beauharnois Megantic |  | $\begin{array}{r} 1,771 \\ 232 \end{array}$ | $\begin{aligned} & 5,147 \\ & 2,967 \end{aligned}$ | $\begin{aligned} & 4,699 \\ & 4,903 \end{aligned}$ | 121 | $\begin{aligned} & 224 \\ & 104 \end{aligned}$ | 73 |  | $\begin{array}{r} 11,914 \\ 8,327 \end{array}$ |
| Ottawa |  | 805 | 1,277 | 808 |  | 189 |  | (washed) 1,000 | 4,079 |
| Totals | 849 | 65,9111/2 | 76,919 | 55,0271/2 | 1,7101/2 | 10,769 1/2 | 987 | 1,524 | 213,693 |
| Per cent of totals. | . 04 | 30.87 | 35.9 | 2.57 | . 82 | 0.5 | . 04 | . 75 |  |

and Total Value of .

| Name of Association. | No. of members | No. of fleeces | Ave. weight fleece | Ave. price per fleece | Total value |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pontiac | 348 | 6,166 | 7.5 lbs | \$3.80 | \$23,441.07 |
| Richmond | 253 | 4,545 | 7.7 " | 4.00 | 18,200.90 |
| Compton. | 373 | 4,923 | 7.002 | 3.80 | 18,720.04 |
| Sherbrooke | 196 | 2,779 | 7.28 | 3.97 | 11,037.91 |
| Stanstead | 166 | 2,816 | 7.04 " | 3.85 | 10,767.07 |
| District of Bedford | 182 | 2,454 | 7.5 | 4.11 | 10,098.89 |
| Argenteuil | 130 | 1,980 | 7.4 | 3.74 | 7,410.82 |
| District of Beauharnois | 117 | 1,394 | 8.55 | 4.38 | 6,115.80 |
| Megantic | 94 | ${ }_{372}$ | 8.44 | 4.51 | 4,453.41 $1,636.17$ |
| Ottawa | 17 | 372 | 8.2 | 4.40 | 1,636.17 |
| Totals and averages | 1,876 | 28,415 | 7.66 lbs . | \$4.05 | \$111,882.08 |

The accompanying tables give a detailed statement the grading for each association Macdonald College, Que

## THE FARM:

## A Political Miracle.

EdITOR The Farmer's Advocate". Members of parliament have "broken with their party," have failed to "follow their leader." The situation has been pathetic. Eyes have filled with tears and "voices have choked with emotion," because differences of opinior have arisen where, for years, apparently, no differences have existed. A local paper puts it thus touchingly: Such a gratifying result, from a government point did patriotism of so many Liberal members in deciding
not to follow their leader on an issue of this kind. Nor must the generosity of the leader himself be forgotten, because he has of his own accord freed his followers from party allegiance in order that they might follow
"That they might follow the dictates of conscience!" The leader has, for once, "freed his followers from party allegiance in order that they might follow the dictates
of conscience!"' Most singular! As this local paper remarks:

There has been no such display of independence of party since Confederation, the Conservative revolt at against reciprocity, fading into insignificance in compari-

It is, therefore, a most unique condition that the member of a party," the "follower of a political leader should be free to follow the dictates of his concience! Yes; "there has been no such display of in-
dependence of party since Confederation." Fifty years have passed; fifty stormy sessions of parliament have deliberated long into the night, and have "divided" in the "wee small hours," and now, as never before, members have been free to "follow the dictates of concience.
What a commentary upon the mockery, insincerity, and demoralizing influences of "The Party System!"
In this time of emergency the "System" has broken down, and for almost the first time in fifty years memhers of parliament, at least on one side, have followed the dictates of their own consciences. For once allegance to truth has risen above allegiance to party. May God help Canada if, when the present crisis is
over, those who make our laws should again regard


## Prosperity in Leeds County

 ditor "The Farmer's AdvocateI have been taking an auto trip over a portion of Leeds County, and it might be interesting to your eaders to hear how the prospects are. The crops look ne, but corn is a little backward. The roads on the farmers are taking in heenin pleasure ond yards in a tidy and clean condition. There isn't much building yoing on. If one was to judge by the number of autogoing on. If one was to judge by the number of autothe manufacturers were working night and day to keep orders filled. It appears to me from the fine crops of potatoes and garden truck one sees, such stuff will be ower in price next fall and winter. Everywhere you o, no matter on what road, farmers are taking more pride in making "home" more attractive. It was also hleasing to see the attractive appearance of the rural think old Leeds county is keeping pace with neighborthink old Leed

## Fewer Bugs and Less Disease Mean More Potatoes

The failure of the potato crop in many sections last The failure of the potato crop in many sections last
year, resulting in abnormally high prices for this article
of diet, has led many land-owners to increase their of diet, thas sp many lind-owners to increase the extra expense for seed. A few more rows than usual on the arms to-
gether with the idle land within city and town limits gether with this crop will make a a vast difference in the supply next fall if the crop is an average one. As
supply and demand govern the price of potatoes, perhaps supply next farl in the ern the price of potatoes, perhaps
supply and demand
more than with less perishable products, it is comparativemore than with less perishable products, it is comparative-
ly safe to prophesy that if favorable weather conditions ly safe to prophesy that in favorable weather conll next
prevail the price will be within the reach of all
However the crop has just nicely started winter. However, the crop has est nicely started
growing in many sections, and there are several things growing might happen between now and fall to prevent a heavy crop ents excessive wet causes rot; hot check development, excessive wet canses rot, hot, damp weather turn the whight exacts a heavy toll; numerous other diseases may work towards reducing the yield, and the potato bug is ever ready to defoliate the plants. Consequently, it is not advisable to count the number
of bags per acre until nearing the end of the growing season.
As with the root crops potatoes respond to proper
cultivation. From the time the rows can be followed cultivation. Fines meet and fill the rows the cultivator until be used at intervals of a week or ten days. At
should bed
first the implement used can be run quite deeply to first the implement used can be run quite deeply to loosen up the soil and give the tubers an opportinity to
expand. As growth advances run the cultivator a expand. As growth ave object of destroying weeds and little shallower wust mulch which goes a long way to-
maintaining a dust wards conserving the moisture in the soil for use by the plants. On light land where the seed was planted from three to four should be resorted to as this practice ip the potatoes shoud surface to the drying effects of exposend wind resulting in loss of moisture. Many successful growers practice level cult tivation throughout
the esason. On clay soil where seed is planted near the the season. On clay sitw where up to prevent sun-burn. This method also gives an excessive amount of water This method also dives an exxessive amount of waickly. The potato plant
a chance to drain away
a will not do well if its feet are kept wet.

Several destructive diseases can be prevented if the proper material is applied at the right time and the
work is done thoroughly. Once disease has become work is done thoroughly. Once disease has become established, spray material wil not eliminate it, al-
though it may check further spread. Paris green, though it may check frther spread. Parcial preparations arsenate at the right time will destroy the bugs and insects
applied
an the fork thavo on the foliage if unmolested. As which work havoc on the foliage if unmolested. As other than those growing potatoes on a commercial blights. They take the risk and sometimes their crop
blo is healthy, but at other times it is lost. it is impossible to tell whether or not disease crop when there are year, but why gambe the risk of failure.
So far Canadian growers are fairly free from diseases which not only destroy the crop but infect the soil rendering it untit for potates
effort should be made to keep the crop clean. One way of doing so is to go carefully over the field a couple weak plants so that they cannot produce tubers which weak plants so triers of disease. By taking this precaution
might be carres several diseases will be
established in this country.
The importance of the potato crop warrants every effort being put forth no and quality of the tubers. The latter can be done to a large extent by selection in the field during the growing season and at digging time. The danger of a potato famine in any district would be lessened if the growers would pay a little more at-
tention to the quality of seed sown and to the pretention to the quality paration of the soil, enjuring the crop.

Insects Attacking the Potato Crop. There are a number of insects which attack the potato crop, This insect is known to all potato growers in the older districts. The adult or hard-shelled beetle does not do so much damage to the leaves as do the larve. If methods are not adopted to destroy the arve, or at least ce soon stripped of their leaves, which the potato vines are soont of the plant. The adult hinders the development the winter, but is generally on the job when the first potato growth shows above the ground. Eggs are laid on the under side of the eaves, or on grass and lews. and the young larve soon devour the tender foliage. Where only a few rows of potatoes are grown the adult beetles may be destroyed, but this is not practicable where a large acreage is under cultivation, Consequent y, some form used, although some growers are now Is commarsenate of lead. The green may be applied
using arsen using arsenate the when they are covered with dew. One
dry to the plants steen to 50 pounds of slacked lime, or pound of Paris green to 50 pound of shacked lime, or other dry powder, are the proportions which a
results. It can be pplied with a can in which a number
and results. It can be applied wit in the top, or a special
of holes have been punched in tower may be secured.

It is necessary that this te applied early in the morning
in order that the moisture on the leaves will hold it.
Eight ounces of Paris green dissolved in forty gallons Eight ounces of Paris green dissolved in forty gallons larve. The solution may be applied by a watering can, knapsack sprayer, or large spraying outfit which
will do four or more rows at once and apply the liquid wo the four or more rows at once and apply the Hiquid to the sides and top of the plants. There is apt to be al
little free arsenic in the Paris green which if not neutral little free arsenic in foliage. A few ounces of lime added to the solution will correct the burning effect. When using the arsenate of lead three pounds to forty gallons of water is sufficient to destroy the bugs.
to this material is that it is rather slow acting, but it has


Black Leg as it Appears on the Potato Plant.
the advantage of sticking to the leaves and being account it is preferable in a wet season. If the bugs are bad one-half the regular quantity of Paris green and wat One spraying with the poison solution is seldom sufficient for the season, as the eggs are not all laid at one time. Two applications are generally necessary and
sometimes it is found advisable to spray the third time.


Late Blight Getting Started on the Foliage.
It will take about forty gallons of the solution to spray an acre. At the prevailing price of Paris green
and lead the expense for material for controlling the and lead the expense for mater
beetle may easily be figured out.
In some districts the flea-beetle is particularly bad this year. This insect causes damage by eating tiny
holes in the potato leaves. The adult beetle also feeds holes in plants and weeds related to the potato. As
on oted por the under side of the leaves it is rather a
it feds on
difficult insect to keep under control. In the first place, it is advisable to prevent weeds upon which
these beetles feed from growing in the vicinity of the potato patch. It is unfortunate that the sprays mentioned for the Colorado potato beetle are not very efficient in controlling this other pest. It has been found,
however, that Bordeaux mixture serves as a repellent and if frequently applied so as to keep the new leaves covered the flea-beetle will not have an opportunity to do much damage. If this insect is very troublesome the spray should be appled The leaves are orce to the under side ofline eaves. quently, if they are destroyed, or eaten full of holes, their wuent is interfered with and the crop is reduced accordingly.
Sometimes when applying arsenical poisons for the
destruction of insects there will be a dying of the leaves lestructs. This may be caused by the arsenic burning. To offset this use a little lime with the Paris green or arsenate of lead. In early July the young plants sometimes appear wilted. This may be taken for a
sisease and cause alarm. However, the weather is lisease and cause ald the plants recover quickly when the weather turns cloudy. A long spell of hot weather the weather the tips of the leaves to curl and die. This does not cause very serious loss although it has a tendency to weaken the plant somewhat. As it is largely due the lail in good condition at planting time, and then the soil in good condition a
keeping the surface stirred to conserve the moisture.

## Potato Diseases.

There area number of diseases which attack the growing rop and either reduce the yield or entirely destroy it. The early blight is one of the first to be noticed in the While it is not so destructive as the late blight, it causes death to a large number of leaves, thus interfering with production by concentric markings. They may start he leaf by concentric markings. They may start sometimes involving the entire leaf. If this dying back is not checked the plant dies prematurely. It is very often prevalent in dry seasons. Spraying with Bordeaux mixture con blight. The poison used for the time checks the late bine mordeaux so that one operation serves two purposes.
The late blight can
The late blight can be quite easily distinguished from the one previously mentionec. conditions are favorable. The areas affected have a water-soaked appearance with a purplish tint, but there is absence of definite markings. Not only are the leaves attacked but the disease follows on down the stem and may lodge in the tuber, causing immediaterortting, orelse
lie dormant and cause decay after the tubers are placed lie dormant and cause decay aver the the disease is excep.
in storaze. The loss directly due to this in storaly heavy some years in certain parts of the country. Warm, moist weather the latter parat of July and thiroughout August is particularly suitable to the rapid developwhole field may become infected in a very short time. An offensive odor is generally detected where the blight has gained a foothol. As hie leaves are destron the crop is greatly reduced if not as a fungus in the tuber, which, if planted the following spring, produces a weak growth which may bear the fruiting spores and be the means of starting the disease in the field. At any rate these weak plants are susceptible to the blight. Owing
to the development of blight, depending oonsiderably on weather conditions, there may be heavy loss one on weather conditions, the next. However, the grower
year and hardly any who does not take preventive measures is running a great risk of losing his entire crop. In the first place healthy seed should be planted and in the next, the plants should be sprayed with Bordeaux mixure rom the time they are five or six inches heather conditions, of about two weeks,
until danger from attack is past. Spraying with this until danger from aill the fungus, but it will prevent the spores gaining entrance to the tissues of the leaves.
As the leaves continue increasing in size it is necessary As the leaves continue As many as six applications may to spray frequently. As many is others, two or three application may be sufficient. There is no guarantee applt the potato crop will be free from blight this year, therefore although buuestone, in Bordeaux mixture, is rather expensive and help is in Bordeaux mixture, is rather expet take any chances. It has been proven that the crop can be saved from destruction by blight the berdeaux, which not oonly prevents the blight but apparently
the leaves, resulting in increased production.
the leaves, resulting in incresed to be the most serious
While late blight is considered disease of the potato crop at the present time, care must be taken that Some of them are more difficult to control than the blight and net only the soil, rendering it unfit plants, but the germs infect tuber of years. The only for potata growns this cordition of affairs is to pay strict way tontion to seed planted, and then watch the crop during the growing season and remove diseased plantr,
Th Little Yotato, or Rhizoctonia, has been found in a The Little Potato, or Rhizoctonia, has seen sections it number of places in this.
causes considerable lote leaves curl and the causes considerable loss. The
tops have a compact appearance. Small, green po

## THE FARMER'S ADVOCATE.

tatoes are sometimes produced in the axil of the leaves
which tend to interfere with the proper growth of the which tend to interfere with the proper growth of the tubers. These contain the fungous spores by means of which the disease is spread. Field treatment is not effective in controlling the disease, consequently i infected plants are noticed they should be pulled out destroyers the fungus.
Blackleg is another disease which is spread by the seed tubers. While it is not prevalent as yet it has been found in several districts in this country and is believed our potato districts on infected seed. The tuber rots quickly after it has been planted, consequently a rugged growth is not produced. The plants have an unhealthy appearance and requently die prematurely. This is a disease which ors. While seed treatment will go a by potato growers. Way in preventing its spread, diseased plants should not be left in the field until digging time
There are several wilts which infest potato fields, ausing a the den and the ing with the development of the crop. No one the causing rot to develop in storage. In some tubers the disease remains over winter in a dormant stage and is the means of spreading it the following season. The season by unhealthy or unnatural growth of the foliage. There are several other serious diseases of the pctato, such as canker, powdery scab, etc., which affect the tubers only

How Bordeaux Mixture is Made
Bordeaux mixture is the material used in preventing the development of blights. This mixture is made by dissolving 4 pounds of copper sulphate and 4 pounds
of lime in 40 gallons of water. It is rather unfortunate fime in sulphate is high in price the present time. However, rather than run the risk of having the yield reduced by late blight, it will pay potato growers to give at least two or three
aplications of Bordeaux to the crop. Where there is applications of Bordeaux to the crop. Where there is
only a small patch to be treated the solution can be made up fresh each time. However, copper sulphate does not dissolve very readily and time can be saved by making a stock solution before the spraying season is on. In making the stock solution dissolve the copper sulphate at the rate of one pound to one galane Then when using the solution one gallon would represent one pound of the material. In making up the forty gallons, four gallons of the copper sulphate solution and four gallons
of lime water would be used. If the receptacle used in spraying does not hold the amount mentioned the quantity of spraying material could be reduced accordingly. Care should be taken when using the stock solution to dilute the copper sulphate and lime separately. Use a wooden pail for the copper sulphate, as it will destroy
tin, and iron affects the quality. When making forty gallons for immediate use the sulphate should be dissolved in a vessel which would hold about twenty gallons and the lime solution made up in a receptacle that would hold a similar quantity. When both are
thoroughly dissolved the two solutions can be poured together. The proper results could not be obtained together. dissolving the sulphate and slaking the lime in the
same solution. Arsenate of lead or Pa
added to the Bordeaux for killing bugs. There are different outfits manufactured for spraying the potato crop and whatever kind is used the nozzles should be arranged so that the spray or solution willstrike to apply plenty of pressure as the greater the pressure o apply plenty of pressure as the greater the pressure
the finer the spray, which results in the work being done more effectively than when a coarse spray is applied. Cases have been known of the potato field being carefully gone over with Bordeaux several times in the season and yet the blight was quite bad, while the same numbe ing patch controlled the disease. The only difference that could be found was in the application; on one about 150 pounds pressure was used and on the other barely 5 pounds. This was with a large outfit
Experiments have been conducted to find out whether or not the copper sulphate and lime on the leaves gave Gelds where on blight was seen the yield was materially


Bad Hill Road Making
increased where the solution was applied, in some cases as high as sixty bushels to the acre. The theory adment and kept the plants fresh and green later in the season, thus lengthening the growing season. It is generally noticed that vines sprayed with Bordeaux
have a darker green and a more healthy appearance in the fall than those untreated.
effort be put forth to stimulate the usual that every also to guard against disease When it per acre for seed the yield must be considerably above
the average to make the crop a paying proposition if
marketed at the usual price. Then too some seed was not of the highest quality and some was imported thus increasing the danger from new diseases. Give the crop proper cultivation, spray with Bordea
poison and destroy diseased plants in the field.

## Mis-Called a Road

Editor "The Farmer's Advocate": The other day in my rounds I chanced upon a stretch
the King's highway known as the "Hamilton Road" Its condition as disclosed herewith by the tell-tal camera is a lamentable reflection upon the name whic the ambitious city at the end of Lake Ontario wil likely want repudiated forthwith. If His Majesty wer throw up his job and conclude that the good road movement was a delusion and a snare. Catalogued as a "county road", the administrative fathers of Middle sex have there a horrible example of how not to do it that might be mistaken for a bit of Vimy Ridge afte the high explosives had got in ther work. F surmise with some of the streets in the city of London a few miles further on. It looks like a conspiracy to preven any truck or trade between city and county, but autos making a run-way at the side. This road has a history by the way, I am told it was a pre-railway wildernes route from Hamilton to London with a spur to Por Stanley. Parts of it are evidently in the pioneer stage country. Once it was coated with be worst roads in the country. Once it was coated with beautiful pine plank days. It was gloriously smooth for a while, but the end ing was worse than the beginning. The only thing about the experiment that endured was some of the long pine stringers the ends of which were seen sticking up
at the lapse of over a half century as late as last seat After that the gravelling era set in and it will likely outlast the war. The bit of road illustrated is up along a moderate hill and is typical of several others having wide, hat road bed and no ditch carry off the water A carriage is in view navigating through the deep
coating of soft Thames gravel and sand, so flux that even a steam roller would hardly pack it into a passable bed Every heavy rain that comes starts a torrent down the middle of the road washing away the finer material leaving the unbroken stones and rocks to shatter tire and ruin horses feet. It is a near approach to perpetual,
municipal motion in a three-year circuit, gravel dragged on one season, washed back to circuit, gravel dragged then hauled on again. This is what the patient rural tax-payer has endured so long that he has become upon him by inefficiency. Nor to injustice perpetrated want of knowledge for tons of road construction literature have been thrown broadcast in every county, and enough of good roads speeches blown into the air to funds because under the procedure is it due to lack of money is wasted many procedure described sufficien and crown the road at the outset. To properly drain the results in evidence are the direct consequence of policy of drift and it is up to the authorities to give the
people something better for their money

## Canada's Young Farmers and Future Leaders.

Recreation for the Farmer and His Family.
The summer season is the time of year that city and
town dwellers plan to take two weeks' holidays or more at some summer resort in order that they may or more for the tasks devolving upon them during the other fifty weeks of the year. This cessation from regular daily toil is considered by city people to be a necessity from rule must labor on during the heat of the midsummer sun in order to garner the crops that go to feed the world. At a time of year when nature is looking its best the farmer and his family must continue to toil. This
is the rush season. But at every season of the year tone, and the impression seems to be abroad must be tillers of the soil do not require holidays. While a week or two weeks' continous vacation in
midsummer might be out of the question, it is believed that by careful planning every member of the family
could be spared from the work to enjoy a few days in quiet rest, or else spend the time travelling if they so
desired. "All work and no play makes Jack a dull boy." and it also makes farm life more or less irksome and the same round of work, somen or later tires a person physically and mentally. Those wresting a living from
the soil require a change from their regular work as much
as do the city workers. A few davsespent in the city as do the city workers. A few days ppent in the city woman from the country. The summer resort is en-
ticing to some. Howere, it is not aluasm necessary
to go from home in order to have a pleasumt and proto go from home in order to have a pleasant and pro-
fitable vacation:

If it is impossible to leave the farm, only work that is the time spent reading, resting or visiting. Even short vacation of this nature will be found beneficial,
but it is better to get entirely away from the regular Automobiles are becoming quite common in the rural districts and their use tends to eliminate distance. There is possibly no better way of spending a few day or three families do routine than for members of $t w o$ various sections of the country. By carrying through of good things to eat the party can picnic along the way and spend the nights at a hotel. This will be a change;
new sights will constantly be coming in view, especially new sights will constantly be coming in view, especially
if the trip. leads through sections of country not pretunity of seeing the lay of the land, the kinds of crops grown, the breeds and quality of stock kept, the archi-
tecture of the buildings, the farm and home improvements, etc., all of which are of interest to the traveller. will possibly lead to the conclusion that the home farm
with its crops, stock and buildings is not so bad after all. It is necessary to see how the other fellow is living
in order to fully appreciate home. There are many beautiful parts of the country through which a motor
trip might le planned. In some homes the young people always come first
when a pleasure trip is under consideration. Parents
sacrifice themselves for their children Whilo admirable trait it it doubtul if it is always in the loest
interests of all concerned. Parents require a change even more than the boys and girls, and the young folk having an outing first this year so that if anything
turned up to prevent all having a vacation it would be

The holiday season is always a busy time on the farm and farmers have deprived themselves of recreation on obliged to entertain city folk for they are oftentimes the hottest weather and this necessitates extra work, especially in the house. An over strain results in ingo through this world once and the hearmer and family earn and has as much need of a holiday as the city folk. Take a few days off this summer. It will do the time winter sets in as if you had been constantly

## Profofit in Feeding Pigs <br> Emtor The F.




 400 lbs middlings


## INO liss. hoot feed




## Automobiles, Farm Machinery and Farm Motors.

## The Speedometer

The most intricate mechanism in connection with an automobile is the speedometer, and so the greatest
care must be exercised in any operations looking to care must be exercised in any operations looking to-
wards its maintenance. The speedometer head itself is
as delicate as a watch, and do not, under any circumas delicate as a watch, and do ont, under any circum-
stances, tamper with it any more than you would with an expensive timekeeper. When the head leaves the
factory it has been adjusted very minutely and before factory it has been adjusted very minutely, and before
being adjusted has been built on special calibrating machines. Every part that requires lubrication has been
oiled, and the mechanism prepared for operation as oiled, and the mechanism prepared for operation as
long as its life is figured to exist. The most important part of this article is to give a suggestion as what not
to do rather than an indication of what operations to follow. Should you, however, be positive that the
fead of the speedometer is at fault, the best course to head of the speedometer is at fault, the best course to
follow will be to detach he head and send it to a service station of the company which manulatcuured it. Do
not, under any advice, allow a repair mart in a garage, or even a jeweler, to attempt a re-adjustment, because
these people, no matter how wwilling they may be nor
how certain of their own ability, will not effect a perfect job, and furthermore, the manufacturers of speedometers do not allow anyone to tamper with the heads
of their machines under penalty of cancellation of the guarantee.
Of course, there are what might be called acces-
sories in the speedometer, and these sometimes cause a certain amount of difficulty. If you find that your speed-registering machine is not giving entire satis-
faction, there are a number of systems of diagnosing the troubles. In instances where the pointer is unsteady,
you may find that the union connections, between the speecometer itsel and the fexible shaft, are loose. They
swivel joint and the swivel join and ate lll times. Then, too, the flexible
should be tight and
shaft may have suffered an accident and become sharply shaft may have suffered an accident and become sharply
bent, or the sprocket and pinion on the roadwheel may be meshing improperly. These cause movements that well lubricated and cared for at alle times, and in fact, all parts leading from the roadwheel to the head of the
speedometer should be given careful oiling at regular spedometer should be given careful oiling at regular
intervals. Sometimes the steering knuckle of the car is intervals. Sometimes the steering knuckle of the car
loose and prevents the pinion from meshing accurately loose and prevent
whatever of speedometer speed or mils to give any indications trouble in loose union or roadwheel clamp connections. trouble in loose union or roadwhee clamp connections.
Go well over the system from the head to the front
wheel. Perhaps, too, the swivel joint gears may be
stripped, or the fibre wheel pinion minus a tooth or a
cotter pin absent from its position of duty. It seems absurd to be going over these details, but nevertheless
our words of advice will remind you that the parts of the speedometer arrangement which the average motorist can look to are very simple, and the complicated end of the insta
be touched.
When the speed and mileage records are incorrect,
you may find that a wrong swivel joint has been used In other words, a high speed one does not give proper indications on a low speed speedometer, and the opposite is equally true. Furthermore, you cannot use
a left hand swivel joint on a right hand wheel, or vice versa. Sometimes when the sprocket in the road wheel
has lost some of its teeth, the result is shown by improper has lost some of its teeth, the result is shown by improper
indications. In most machines the sprocket should have double the number of teeth that there are inches
in the diameter of the tire. If you will look at your instruction book with your car, you will probably find that this is correct, but if it is not, the ratio in all proba-
bility will be given, and you can then accurately determine when the sprocket is in right relation to the over-size tires on your car, you must realize that a change is necessary in the sprocket. This is sometimes a delicate adjustment, but ir you are an atom or two out, enough for all general purposes. If you are travelling enough mor anu general purposes. In you are travelining speedometer registers differently upon every occasion.
The difference will not be great and so you should not The difference will not be great and so you should not must remember that perhaps you do not travel the road in exactly the same way, you may be dodging mud holes one day and running absolutely straight and
true another. Furthermore, the inflation of the tires true another. Furthermore, the inflation of the tires
has a great influence upon a speedometer. Sometimes tires become so deffated that the spe
If speedometer back of the dial, do not, under any circumstances, determine in your own mind that it requires lubrication. This noise may be developing from some the speedometer head itself, would prove disastrous in nine hundred and ninety-nine out of one thousand instances. We might just as well repeat what we have already said, that the speedometer head comes from the factory properly calibrated and lubricated to with-
stand all the wear that the mechanism is asked to stand and during the lifetime of the machine.

The fexible shaft, when carefully installed, seldon gives any trouble if looked at say once every two or
three months. It should not be bent or be too short or too long. There should not be any strain upon it and do not, under any circumstances, allow it to ru
against anything. Friction causes wear that sooner against anything. Friction causes wear theo sooner or
later develops damage. When the shaft becomes noisy you can be certain that lubrication is imperative. A dry
shaft also causesthe pointerin the speedometertovibrate shaft also causes the pointer on the speedometer to vibrate
Some drivers have been foolish enough to put a shaf Some drivers have been foolish enough to put a shat
through the springs of the car, and when the latte was subjected to a great strain or broke, the shaf naturally crumpled up with results that could not fai to be obvious. It seems unnecessary to state that
should the chain itself break, all indications of should the chain itself break, all indications of spee
and mileage immediately cease.
Auro.

## Careless Driving. <br> Edron "Th Fare Driving

It is well known that many drivers of motor cars are not cautious enough in giving half road, although the one side to admita team to pass. The other day something happened to me which I will never forget. Many drivers try to keep the centre of the road as longas as they possibly
can, and then on the approach of a rig turn sharply can, and then on the approach of a rig turn sharply to
the right. My driving horse is not afraid of cars and was driving at a moderate gait when a motor car approached me. I gave a little over half of the roadway and stuck to the principle that the motor driver did no pay more for the road than I. The driver made no
attempt to turn aside till he was within fifteen feet my rig. The road was not in the best condition, but had ruts about three or four inches deep. A recent showe had made the road a little slippery. and although the driver of the car had turned his front wheels almos
diagonally in the ruts he could not get out of them and diagonally in the ruts he could not get out of them and to take my buggy to the repair shop instead of home The road was rather narrow and $I$ was lucky that did not upset. The driver of the car did not have enough respect to stop and offer a few words of excuse, bu
cowardly drove away as if he were king of the bad I wanted to catch his number but it was so splashed with mud that I could not tell one figure from the other.
Now a driver of a car should swing to the right at a reasonable distance when meeting another car or
vehicle and in a case like this he should use the emergency vehicl
brake.
Wa
brake.
Waterloo Co., Ont
Young Farmbr.

## THE DAIRY.

## What is an Animal Worth?

Milk production is the gauge by which the value of the milk flow the greater the direct value of the animal. The indirect value is also considerable, as the progeny Aaggie, the world's champion milk' producer, came into prominence through her ability to exceed allother cows at the pail. The revenue from her milk alone amounts
to a high figure in a year, but the fact that she is a to a high figure in a year, but the fact that she is a
champion cow greatly increases the price her calves will bring, as was evidenced at a recent sale where her six-
months-old son brought $\$ 53,000$. Of course, a certain portion of this must be credited to the sire, as his breeding was of the highest order. The call is a splendid individual, but from appearances no better than hundreds enal price? Breeders know that an animal transmits its qualities to its offspring, therefore, if the calf in
question transmits the milking propensities of his sire and dam to his progeny, the result should be something better than the present world's champion cow.
Breeders take a chance, but in this way breeds have been Breederst. There are, many who argue that no calf is
improved.
worth the price paid. For King Ormsby Jane Rag Apple it does seem like an exorbitant figure-and it is
hard to see the value in the youngster, but it goes to show that breeders of high-class stock will pay the price to
bring their herds to a high standard. For beef this champion cow might bring nearly $\$ 100$; as a milk prochampion cow mith about 8600 a year, but her value as
ducer she is worther
a producer of stock is up in the thousands of dollars. While the individuaity the way of producing revenue that counts. given sufficient consideration. When selecting a herd header it should be remembered that his progeny will
inlierit his characteristics, be they good or bad. ThereYore, a few dcllars should not stand in the way of secur-
ing a sire that possesses the qualities that will improve ine herd. His infuence is spread over a number of
thears and exerted on numerous individuals.
yeat A female that gives mill to the value of $\$ 100$ in a yeal least returns a fair profit over feed consumed and may give this return for several years in succession be-
sides dropping a calf each year, but eventually her day
of usefulness ends and another female must be secured
to toke her place. Naturally her daughters will be her successors, but will they be as valuable as their dam? successors, but wiil teey be as valuabe breding and character
It depends a good deal on thatite
of the sire. The tich qualites of the dam may be of the sire. The rich qualities of the dam may be
counteracted in the progeny by the mediocre blood of counteracted in the progeny by the mediocre blood of
the bull, so that her heifers will be worth only about three-quarters as much as producers as she was. The Cow would still be as valuable as a milker, but indirectly no improvement. Improvement in stock does not come naturally, but by selecting and mating the best in-
dividuals. Some men are in a financial position to dividuals. Some men are in a feir progeny, but the aurchage dairyman need not be discouraged. By using
averaght
the right quality sire he can increase the averave milk the right quality sire he can increase the everage milik
fow of the herd by several thousand pounds in three or four generations. True, bulls that are "top-notchers" are scarce, but there are many well bred sires on the
market that would improve the average herd. Re cently the writer was in a stable wheree a fairly good herd was kept and was surprised to see a very inferior
looking bull in the pen. On inquiring what record his looking bull in the pen. On inquiring what record his
ancestors had the reply was, "I don't know, I had a chance of getting him at beef price so thought that he would do for a couple of years, and I can use the extra money it would have taken to buy one out of a good cow." It is regrettable that there are many who choose
their bulls this way. Heee were fifteen big-framed cows their bults this way. Hive mere with the sire used the heiers could not be expected to produce as well. The owner was saving a few dollars at the time but was reducing the value of his future herd.
Rather than breed to a ccrub
Rather than breed to a scrub sire it would pay to
secure a loan and purchase a richly - bed bull secure a loan and purchase a richly - bred bull
to place at the head of the herd. By so doing the value of the herd would be increased directly as well as indirectly. Production would be increased in the next generation of heifers, which would raise their value
above that of their dams and their offspring would command a higher price. The dairyman should ever be planning to improve the quality of his future herd. There is no getting away from the fact that breeding counts, and if a man is satisfied with using ordinary
breeding stock he must be content with just ordinary breeding stock he musted in a sire of the right quality
returns. Money invested returns. Money invested in a sire of the right quality
and backed by ancestors that have proved their worth as producers as well as transmitters of those qualities will return big dividends. The present cash returns for
milk arenot the only thing to consider, there is the offmilk arenot the ont and theing progeny to take into account. The
spring and
aim of every dairyman should be to breed so that the aim of every dairyman should be to breed so that the
heifers will be more valuable to him, both as producers heifers will be more valuable to him, both as producers
and in the sale-ring, than their dams. It can be done
through the sire. Some bulls are worth many times
what they bring in the sale-ring, while others are dear what they bring in the sale-ring, while others are dear prove your herd, then plan a better one still to succeed There is also a need for doing a little culling in the herd. On the basis of production many females would
not be worth much. Such individuals only tend to lower the average of the herd and thus discourage their owner. Better to keep ten cows that will give 8,000 pounds of milk in a season than twenty that only aver age 4,000 pounds. There are many cows giving less han the latter figure, and their owner doct realiz use of better bulls will soon increase the value of Canada dairy stock.

## B. C. Dairymen's Association in

 Summer Session.A large attendance, a two days' program full of practical and helpful suggestions, keen appreciation of the value of the meetings, generous hospitaity, deiight
ful weather and an urgent invitation to come again and often; these were the outstanding features which stamped everywhere the signs of success upon the first summer meeting of the B. C. Dairym,
Okanagan, June 21 and 22 .
Heretofore this Association has held but one regular Heretofore this Association has held but one regular
俍 coast country. In fact, dairying has developed so
markedly in the lower Frazer Valley and the Islands maark cody in the lower Frazer Valley and the Islands
that these people feel they have a monopoly of the busithat these people feel they have a monopoly of the business and all the good things that go with it. But when butter at the exhibit at the last annual meeting and then issued a most cordial Irish invitation to hold the next meeting in their town, the down-country people immediately began to study their maps and to rearrange
their impressions of this hitherto far-famed fruit country Dairying in the Okanagan is a relatively new industry. Once the thousands of acres sloping away from the lake and following lar up its numerous contributory streams were the grazing lands or large bands of beet cattle. sut in a of orchards, and canned milk and canned meat became the only representative products of the bovine race in most of the Valley
Orcharding is a prime industry in the Valley. There are many large, beautiful, healthy orchards. But the people are learning that they must have a variety of
crops; that the soil must be fed; that animals are needed
to do the work, to consume forage crops and to fertilize the land; that they require a steady income and imDairying is certain to become a prominent industry in the Okanagan Valley. Alfalfa does beautifully, giving three cuttings. Corn does exceptionally well not only for silage but maturing fully for grain production.
Root crops do splendidly. What more could the dairy man ask for in a land of heart's desire? There are some pure-bred Holsteins, Guernseys, Jerseys, Ayrshires and priced, and as a consequence only good cows can be profitably kept. The years will see very superior pure-
bred dairy herds developing in such a locality. But bred dairy herds developing in such a locality. But is not the dairymen's meeting
No time was left for loafing when the program was
made. Friday's session was held in a beautiful grove made. Friday's session was held in a beautiful grove
on Mr. Dilworth's farm. The forenoon consisted of a judging demonstration and discussion, first on draft
horses by W. T. MacDonald, Live Stock Commissioner, and second on dairy cattle by Professor J. A. McLean of the B. C. University, After lunch a full speaking program occupied the afternoon. The feeding of dairy the presentation of the various factors influencing the cream test by T. A. F. Wiancko, Dairy Instructor for B. C. In creamery sections where the separation is done at the farm and where the cream is transported

Prof. Stevenson from the Dominion Farm at South itable to the locality. Minnesot Dent and Quebec 28 both do very well in the Kelowna District, getting good fodder growth and maturing germination test of the seed of buying sedtance of the cob, and of clean, thorough cultivation. In a later talk on alfalfa he outlined the proper method of handling the land in seeding, the proper time of cutting, and with
silage and alfalfa he gave typical desirable feeding silage an
rations.

In British Columbia frequently the season of cutting hay cannot be made the practice of ensiling the first crop. Peter Moore when in charge of the Agassiz Experimental Station did much investigational work on the method of storing and the feeding value of such silage. His talk on this subject he said to cut the clover short, put it in when it is rain ing, right after cutting or else run a good stream of water into the blower and tramp it in well. It makes
a feed almost but not quite as good as corn silage-but a feed almost but not quite as good as corn silage-but Agassiz-and it is put up much cheaper. Such prac-
tice with clover or alfalfa gets it off the land at once thus not interfering with the second crop, and gives a setter and more succulent feed than the hay would give
when rained on. The handling of tuberculosis, contagious abortion
milk fever and bloat as outlined by Dr. Tolmie, conained many very helpful and valuable practical sugges tions. Mr. Berry, an ex-school teacher, school inspec tor and now serious farmer, gave an all too brief outline
of the work of the Frazer Valley Milk ociation. The Association is milley Milk Producers' As trols over 85 per cent. of the milk produced in the lower
Frazer Valley. It was organized by the Frazer Valley. It was organized by the farmers to
market their product. The organization, like every market their product. The organization, like every
other co-operative effort by the men from the land, is the outgrowth of unfair treatment of the producer by already got fairer treatment stabilized the market; it has producer without affecting the consumer. It is paying started, but it is justified, is right, is going strong and is
"Root crops and how to grow them" received lucid He knows roots and he taught many older farmers new
tricks that make for economy and tricks that make for economy and greater crops.
Amongst other things he emphasized the home growing of seed, pointing out the ease with which good root seeds. He showed that feeding value could be produced cheaper and in greater quantities per acre in roots than
in any other crop. He showed that it pays to seed early in any other crop. He showed that it pays to seed early planting to kill weeds is much better than trying to beat the weeds later. Cross harrow the ground before the mangels may be cross harrowed again, and once still
later. This helps to kill the weeds, conserve moisture later. facilitate thinning. Carrots canserve and should be
and thinned with a garden rake; there is no need of stooping
for them or hand thinning. for them or hand thinning.
Mangelsshould be thinned to eight inches, Swedes and
urnips to ten or twelve inches. On shallow weedy land seed in drills; on deep, rich, clean soil seed on the
flat. The swine industry received a real impetus through
Mr. Harris' (Moresby Island) talk. He emphasized importance of cleanness of forage crops, and of sane
methods of handling swine, showing how well swine they are.
A resclution was passed by the Association to the
effect that the railroads continue to offer their reduced
rate on pure-bred stock coming from the East rate on pure-bred stuck coming from the East.
Two days surely were well spent in the cause of Two days surely were well spent in the cause of dairy
ing which is better farming in the Okanagan

## Feeding and Caring for Young

 Calves.Many spring calves apparently come to a standstill their development at this time of the year. The rush of haying and harvest monopolizes the time and too often the calves kept around the buildings are given little attention. This together with the heat and flies gives them a setback. Fall and early winter
calves are large enough to be turned on grass, but the calves are large enough to be turned on grass, but the youngsters dropped from Apriion should not ve expectei owner is the loser. It must ever be remembered that a stunted or unthrifty calf will not make as valuable a cow as it would have had it been fed and handled so as to keep it in a growing condition. Caring for the calves
during the summer necessitates considerable work if they are looked after properly. On large establishments where there are herdsmen whose sole duites are to look after the stock, growthy, thrifty calves are
usually to be seen. The average farmer cannot devote usualtuch time to his young stock as he would possibly
as
likeuch like to, but judging from appearances some calves In cheese - factory districts where whole milk is marketed it is harder to give the calves a start than in creamery districts as there is no getting away from the
fact that there is nothing equal to milk either whole or skim-milk for giving a calf a start. However on some farms where there is a liberal supply of skim-milk the calves are not thrity. There is a eeason and it may be found in the management ten calr should have whole milk or some substitute. Unless the young calf is with its dam the pasture is no place for in as it is
buffeted about by the older stock. Give the young sters a clean well-ventilated stall and if there is a shad paddock leading from it so much the better. Then
darkened box stalls and judging by appearances their treatment agrees with them.

Slightly different methods of feeding will also give results. In circular No. 7 Dominion Experimental gives the followida, Dominon Animal Husbandman the dairy calves from the cow at birth. Do not allo them to suck, unless weak or unable to drink, or unless the cow's udder is severely caked. Mother's milk for the first four days, at the rate of 8 to 10 pounds divided into thre first ten days, then start replacing part of the sar the first ten days, then start replacing part or the same with it may be receiving in two feeds daily, 12 pounds of skige, milk plus a tablespoonful of finely ground scalded flax-seed jefy. A three weens of age feed a small qua clean water misht profitably be kept bever hay from this time on. "During the next fifteen weeks gradually increase flaxseed jelly other constituents to make a cram substitute as follows: Fine ground flax 1 part, fine ground oats, 2 parts, ground corn, 2 parts. Feed in the milk
divided into pound at the start and increase to 11 pound. Replace of equal parts bran, rolled oats, and with a grain mixture of equal parts bran, roiled oats, and ground corn. Start
the calves on one-eighth pound gradually to $11 /$ pounds daily at twenty and increase when the skim-milk may be gradually cut off and this grain ration increased proportionately.
extreme heat keep them in a dark and flies but during months of age after which they may hax until four paddock. If fall-dropped calves keep in a clean, bright comfortable, warm box stall. Feed a limited amount of roots or a mixture of roots and ensilage. Feed salt and water as required."
W. . Reid, Director
of Agricultural ion, Prince Edward
ondicult Island, has issued a circular on "Raising Dairy Calves" in which
he claims that he claims that calves
have been raised on skim-milk that were as good as those raised by their mothers. The poor results which fre
quently quently a accompany
skim-milk feeding often be attributed to faulty methods rathe cream. It is possible to substitute the fat oi
milk by feeding certai concentrates, but it is
difficult or practically impossible to get any thing to take the place forming materials
found inskim-milk. To value in calf rearing the results of a cal ExperimentStation are ten calves each were fed on skim-milk,whole
milk and nursed by the dam. The calves were fed 154 days from birth and the cost per 100
pounds gain in pounds gain in weight
was noted. The calven was noted. The calves
fed on skim-milk cost $\$ 2.26$ per 100 pounds run with their dams, 84.41 gain; those allowed to
those fed whole milk $\$ 700$ pounds, and skim-milk were strongest and went right ahead when put entirely on rough feed. Mr. Reid has found oat-
meal siftings and linsed meal sift ings and inseed meal mixed in the proportions
of six good results with skim-milk one of the latter to give good results with skim-milk. It is advisable to start fuls, and gradually increase it along with the milk. At two and one-half months of age a calf will take one-half pound of grain and about fiffeen pounds of skim-milk.
Some prefer feeding whole oats Sind preerer feeding whole oats and bran while others unanimous in declaring that young calves should be given shelter from the elements and flies during the heat
problem. However, growthy calves have beedifferent problem. However, growthy calves have been raised
after the first three weeks on gruels, commercial meals, hay and concentrates. Give the calf a good start on whole milk then as the quantity is reduced aded a little inseed meal or calf meal together with the expect that the calf will be as thrifty an is if it abie to fed on milk for the first five or six months, but if given
should be regular hours for to overfeed and there must study the individual needs and desires dairyman animal in order to achieve greatest success with each young stuff. The profit from the future herd depends
our. The profit from the future herd depends

King Ormsby Jane Rag Apple.

## 

hang some thing over the windows to partially darken the stable to keep out the flies. This is a small dearketail
in the managennent, but it makes the calf more comfort throughout the entire day do better than if tormented systems of feeding which give results when cleanliness and regularity are practiced. There are a number of
feeds on which calves thrive and as some feedd or cheaper and more easily available than others, there is or roughage to feed at stated periods in the youngstes
Iite On the Macdonald College Farm, St. Anne, Quebec, Where high quality dairy stock is raised the system follow their dams as soon as dropped and then fed whom milk for ten days to three weeks depending on the siz and strength of the calf. Skim-milk gradually takes the
place of the whole milk. place of the whole milk. A tew ounces of oat-preal
siftings and oil cake meal is alded to the milk thus wirking a gruel. Roots and hay are fed as soon as calves If available skim-miikk is fed until the calf in s. six ration.
old. largely of crusied ate part of the ration is made up proportioning out each call's allowance fore is used in up to twelve pounds of whole milk are fed daily. ${ }^{\text {right }}$
fix weeks foutten pounds of stik six weeks fourtcen pounds of skim-milk is the usual amount given, but this is increased to a maximum
of twenty pounds. The spring calves are of summer. proper care it will do fairly well.

on the quality of the calves, but improper rearing may
offset anything gained by breeding. It is not uncom mon to see well-bred calves that are stunted due to lack of proper care at the right time. If a profitable
herd is to be built up attention must be given to rearing

## POULTRY.

A Successful Poultryman's Advice and Experience.

## Poultry-raising, though a profitable asset to the

 operations of the farm, is a branch of agriculture that is due to lack of interest. There are three graces i poultry culture-love, faith and work. If a man has love for his work he will be more apt to rightly manage it and more apt to notice all the details of the business If he has faith he will not become discouraged, but willstick to it through thick and thin. What can we do stick to it through thick and thin. What can we do
with any business if our heart is not in it? ${ }^{2}$ to do things with any business if our heart is not in it? To do things mechanically will never accomplish good results. We must be in the mood to see pleasure in our work, and not slight our attention. We may have alltheloveimaginable
and we may have the greatest of faith, but if we do not get right down to hard work we will accomplish nothing oultry is not hard, muscular work so much as it is close application. Laboring for love with the belief work, but work without pay, and without prospect
of pay, is what harasses the mind and gives one that pe-begone"" feeling. Remember if one has love for the work, has faith in the work, and will work, ther
is as much chance of an honest livelihood with poultry as with any other stock, or any other branch of farming.
To make a proper start in poultry as a side issue, the To make a proper start in poultry as a side issue, the
farmer should first of all purchase a pen of pure-breds whatever breed best suits his taste and objects. I mend any of the lighter breeds such wous Leghorns,
Minorcas, Anconas, etc. But if chickens for market as well as eggs are the object, as they should be, the heavie nost popular are-Plymouth Rocks, Wyandottes, breed, remembe arpingtons. Having selected your than breed. By strain we mean simply a fampily line
of any breed of fowls that have been bred for some special purpose for a number of years, hence having
their good qualities so developed that they will be transmitted to the offspring. There are bred-to-lay strains of the general-purpose breeds, and these wil
be found to be most profitable for the average farm. The
farmer should by all means secure the best stock obtainable and endeavor to improve through selection of the Our next question is how shall we mate
best results? We read and hear much more about the of bood to be introduced; simply because it it in new what we must look to. Many poultry-raisers look at the matter as a necessity to change blood in their flocks
every year, and with some of them it makes very little very year, and with some of them it makes very little
difference about the kind of stock they are getting as long as it is new. I am quite in favor of using new blood
once in a while or but if the breeder handles and matecs has stock to do so,
should there will he ne should there will be no necessity of introducing new
blood each year. Line-breeding can be carried on most accesssully by experts, but should never be practiced
to a large extent by amateurs. To the amateur poultry-raiser and the average farmer I would say better attempt line-breeding. And when you do buy birds a flock that does not need new blood more than A strong, vigorous male bird is half the pen. And to obtain the best results both sexes must be in perfect female. I do not mean extra large, but well-grown
and well-developed.
Development and strength in both male and female means strong healthy chicks. Selecting and mating, breeding stock
is a piece of work that requires experience and much The subject of feeding both young and old stock
demands the most careful attention on the part of the poultry keeper. The season of the year, quarters, feeds
available and cost, all haye an important bearinig. But generally speaking a variety of feeds have given best buttermilk when a bout twenty-for hours old, then
for the first feed give a hard boiled egg, after this we change with dry bread crumbs or curds made from sour milk, giving what is best obtainabie, a little chick grit
should always be fed with the other feed, and butter-
milk and fresh wer should When the chicks are about two weeks old they are gradually started on chick feed, which can be bought
at any feed store. I I prefer mixing my own chick feed
which consists of 4 parts cracked wheat, 2 parts of cracked corn, 2 parts crushed oats with hhlls removed, added. These parts are taken by measure not by weight.
The chick feed is scattered in a liter of cut straw hence
the chicks get plenty of exercise scratching for the is warm enough for the chicks to be outside. When about eight weeks old the chicks are given absolute free range,
and when possible moved out in small, portable house and when possible moved out in small, portable houses
to the corn field or some other convenient place, and to the corn field or some other convenient place, and
hopper fed. It is certainly surprising to notice the rapid growth when given free range. It is very necessary to get the pullets into their winter quarters early in the
fall. Experience shows that winter egg production fall. Experience shows that winter egg production
depends largely on the management of the pullets in fed properly year. fed properly they will go down in condition, and as a
result there will be but few eggs until milder weather comes in the early spring. Our method of feeding
laying stock has been to give a feed of 2 parts wheat 1 part corn and 1 part oats in the morning. This is
buried in a deep litter, hence keeping the hens occupied most of the time which is very necessary for laying stock. Lack of exercise results in the hens becoming too fat which decreases egg production. At noon a
green feed is given which varies. Cabbage, mangels,
boiled potatoes, steamed alfalfa or clover leaves are preferred for the noon feed. In the evening a feed of 2 parts of corn and 2 of wheat is scattered on top of the litter but not buried. Poultry grit, oyster shell and
charcoal are kept in a hopper before the hens all the time. For drink, fresh water and sour milk or butterTo make a keeper must also give the housing problem due con-
sideration. Our experience has been the smaller the sideration. Our experience has been the smaller the
flock the better wfll be the returns, but there are many different styles of houses recommended. The main points to consider in the construction of poultry houses to let in the sunlight. Secondly, it must be well ventilated, but free from direct drafts. This is easily done by having three cotton screens on the south side or front of the house Thirdly, it must be free from dampness. This is ove come by proper ventilation. Many farmers are of the opinion that hen houses should be warm. This is no lay more eggs than hens in a warm house because they are in a healthier condition. Over-crowding should also be avoided as hens will never do well when crowded A safe rule to follow is to allow four square feet of floor
space for each hen, or for example a house 10 by 12 feet should accommodate thirty hens
Poultry work is clean work, and parents should encourage
the boys and girls of the farm to have a little business of their own. For this nothing will be more interesting than a pen of pure-bred poultry. It is safe to star
with a small pen; follow accepted practices of succesfu men; test untried theories in a small way; adopt the breed best suited to your own taste and to the market you wish to supply and stick to it. Study the business
and 'stay with it and in a short time difflculties will be replaced by much pleasure and profit.

## Cheaper Poultry Feed.

On account of the scarcity and high price of feed the poultry industry of this country is threatened by the
prospect of the wholesale slaughter of laying stock and a serious falling off in the number of pullets to be matured. The necessity for retaining for milling every possible busher of wheat suitable for that purpose need not be rearing their young stock without unnecessarily lowering the supplies of milling wheat, the federal Department of Agriculture has requested millers throughout Canada to put on the market the cracked and shrunken wheat lition to small and broken
ngs consist chiefly of the seeds of wild buckwheat a near relative of the cuitivated buckwheat. The Poultry Division of the Central Experimental Farm has used it to be a highly satisfactory poultry feed and has ordered two cars of buckwheat screenings for the Central and Branch Experimental Farms from Canadian Government Elevators at Fort William. Fowls used to good accustomed to it they eat it readily and do well on it The mill cleanings from local flour mills also contain traces of many other weed seeds, including several kinds of mustards. These, however, would not as a rule amount to more than two or three per cent. of the cleanwheat. This material is specially recommended for backyard, suburban and professional poultrymen. On farms the cleanings from yards and poultry houses where
it had been fed would have to be disposed of so as not it had been fed would have to be disposed
Those interested in obtaining this class of feed should immediately arrange with local mills or feed dealers for a supply. The mills cannot be expected to keep this
material for poultry unless it is demanded for that purpose and that rests with the poultrymen themselves,

Keeping Up.
Editor 'The Farmer's Tuesdays mails are always welcome, for "The
Farmer's Advocate" is still keeping up its material to
an unusually high degree for a technical paper, and I read it with increasing interest each year. Whiler M. Wright.

## Poultry Feed and Egg Situation.

 During the past week reports have been receivedfrom a wide range of points. The general consensus of opinion seems to be that plenty of feed is available but extremely high in "price. One typical is high in price, but lots of it." Another from New Brunswick: "Feed is high
and scarce. The tendency is to reduce flocks if eggs go lower and feed higher". Prince Edward Island reports feed moderately scarce. Eastern Ontario as a whole it seems feed is scarcer in Western Ontario than in Eastern. New Ontario points have plenty of feed.
British Columbia has feed, but very high in price, British Columbia has feed, but very high in price
feed wheat retailing around $\$ 4.00$ per hundred. Considerable complaint has been raised as to the quality siderable complaint has been raised aritish Columbia From samples submitted, it would seem to be better tha hat available in the Eas
During the past week special inquiry has been made
into the availability of poultry feed at Fort William. It has been learned that large quantities of screenings and other suitable poultry feed are being regularly separated by the elevators at that point. As a rule, however, very little of this is being utilized in Canada
practically all going to the United States. It is estimated practically all going to the united material are available each year. It is, for the most part sold on contract to large feed manufacturers. Canadians do not see the valuable by-products they are losing
There are also other materials available at Fort William at times that would make excellent poultry The value of this depends, of course, upon the nature and extent of the damage.

The firmer undertone for eggs on Eastern markets, first apparent about Friday before last, seems to have gathered more strere has not been any material change in prices reported at country points. The situation in prices reported at country points. was not very encouraging. At least two additional cars of Western eggs had been recelve. These were being offered on the me a still further decline in prices offered for eggs last week. Last Tuesday, however, the situation looked better, the feature of the market being the improvement of prices in England, it being reported that at least one of several cents a dozen over the prices offered last week. Reports from various parts of the country indicate the flush of production is past and in consequence Prices at country points last week showed quite a wide range, producers being others closer to large consuming centres, prices were better, ranging from 30 to 35 cents Egg Circles in Western Ontario last week sold their eggs for the most part from 31 to 33 cents, the last named
price being on the delivered basis. Prices in Eastern cents.
Storage space for eggs in Montreal is practically
navailable, at least in the public warehouses. The unavailable, at least in the public warehouses. The
same applies in Toronto, although the situation there same applies in Toronto, although. the sit United States market continues firm specially so for the best packs which have become scarce owing to the effect of warmer weather. There is less difficulty in securing loans on eggs going into storage than in the earlier part of high-
month. Some nervousness on the part of holders priced spring eggs is reported in the larger United States centres. There is, however, no disposition to force sales as yet. The United States Government Report issued June 15th, covering the first half of the
month did not help matters any, as a considerable month did not help matters any, as a increase in holdings was reported as compared with 1916. Many of the trade, however, have full confidence in the situation. Foodstuffs as a whole continue at an unprecedented higherely dependent upon this continent for food, and are largely dependent upon the trade anticipate that even the larger operators in the trade went into storage, the
at the high price at which eggs
surplus will all be required for export before the end surplus will all be required for export before of the year. storage poultry still hang heavily over the market and Receipts of old fowl are increasing, most of it alive Prices have declined fully 2 cents per lb . during the week. Broilers and spring ducks are coming more freely,
many of which are not in very good condition. Prices for these are unchanged. Old cocks are now coming on the market in larger quantities, but so far there is no change in price from previous report. Some laying hens
are coming with the old fowl which shows lack of good are coming with the of part of producers.
judgment on the part of producers.
I.ive and fresh-killed poultry in the U. S. A. markets remain fairly steady with slight fluctuations in prices. The storage situation, however, is very much depressed and prices are gradually coming down to lower levels
without any appreciable effect on sales. It is said holders are now losing money. Consumption will have to are now losing money. Consumption will have to the new season's pack commences. No movement of Canadian eggs for export has been
reported during the past two weeks although with the reported during the past two weeks although with the recent advance it is quite possible some business may
develop earlier than expected. Both English and Irish production is falling off and it appears that the British dealers are already beginning to look elsewhere for
supplies.-From Market Report of the Dominion
supplies.-From Market Report of the Dominion
Department of Agriculture.

## THE APIARY.

Preventing Robbing While Remov


At Work Among the Bees


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HE FARMER＇S ADVOCATE．

| the wood of the tree and a thorough maturing of the fruit the latter becomes highly colored．In orchards where the trees are in sod，winter apples are usually more highly colored though smaller than in cultivated orchards，evidently because the trees ripen sooner and the fruit matures more quickly，than in cultivated ground．This leads to the conclusion that mosture must play an important part in the coloring of $f$ int，as the relative amount of moisture and heat will determine to a large extent when the tree stops growing and when the fruit will mature．British Columbia，Oregon，Wish－ ington and other places where irrigation is practiced afford the best combinations of sunlight，heat，drynessand moisture，hence it is that some of the most highly colored fruit is produced there．What part，then，do soils or plant food in soils play in the production of highly－ colored fruit？This is a question in which every fruit grower is interested．From the foregoing statement it can casily be seen that warm，well drained soils are most likely to produce apples of a high color，as on these soils the tree and fruit will mature earlier than on wetter soils． <br> Here is a suggestion as to the effect of climate on flavor which some one，however，may disprove．Where a variety matures thoroughly with a relatively low mean temperature for that variety，then one gets the best flavor in that variety．Where a variety matures thorough－ ly with a relatively high mean temperature then one gets the poorest flavor．Where the mean temperature is too low for full maturity，but where there is almost maturity there one gets a medium flavor．Where mean cmperature is solow that the ruit is immat there one gets the greatest acidity and lack of flavor． | hushes should be severely pruned in the antumn to give a vigorous growth during the ensuing season．When <br> the voung wood hats made a good growth，perhaps early in July，the earth is heaped up around and through the buish until only the tips of the young shoots are left showing．The soil is packed firmly at first，but a loose mulch is left on the surface to conserve moisture．Most by the autumn，and the soung plants may he trans ferred to the mursery row．Enclish varietios usually take two years to root，and the soil must be left around them for that time <br> When making cultings of gooseberrics，ripened woot is required，and the are handled much the same as <br> The blackberry is very easily propagated；suckers are produced in great numbers，and these may be dug up and planted．If this system is not speedy enough， the plant may be reproduced more quickly from root cuttings．Cut the roots into pieces two or three inches long，and plant them either in the fall or spring．They are set about three inches deep in the nursery row for yea cason．Cood plants will be available after one <br> lihen setting appt well cultivated． <br> best plants to use are the woung shoots thet cone up in the fall after the last cultivation，or those that come up early in the spring if they are strong and healthy． Care should be taken not to transfer any diseased or weak canes to the new plantation．Reproduction is from the healthy reots，not the canes．If old canes are transferred they will soon die down，and it is not ad－ visable to transplant them．The transplanting may be done in early fall，hut the majority of growers avor |
| :---: | :---: |

Propagating Buish and Cane Fruits．

| place the old plantation of bush or cane fruits with young， | anching Celery． |
| :---: | :---: |
| ilv controlled and a patch that has lucomie vere | In order |
| cedy is disheartening to many．New resolves are | （risp flavor it is necessary to blanch or bl |
| －med as the new plantations are set，and when cultiva－ | co |
| n is thorough from the beginning，weeds and grass | forms the function，but lator is |
| nould give little trouble．All bush and cane fruits can | fa |
| casily propagated，so if any one has a start he can | Heachers are made use of in blanching celery，but |
| sily increase his plantation by observing a fow rules | this list is reduced largely to ea |
| respect to the reproduction of each kind． | 12 －inch hoards or patent bleachers．In the celery |
| the common methot of reproducing currants is by | the Burwell Malsh，where the crops are prodi |
| ＂T one season＇s＇growth make good plants．The | is hay a murk in some places to a depth of 15 feet． |
| －estallished time for making cuttings is in the | This is casils bamked up atout the plants，th hotis the |
| n＇ | there，and a mavor and erispness result that |
| he fiede，and hecled in for a 1 im |  |


 will hold tothe ends of
two boards．After the
Blanching Celery with 12 －inch Boards

| y out too much and a strong growth may result．（1）pen | －where ody a limited quantity |
| :---: | :---: |
| deep furrow with the plough，and lay the cuttinge解 | In a farmer＇s garden where only a limited quantity of celery is pronduced it may be blanched with brown or |
|  | The |
| ter the length in the soil，the stronge |  |
| when | mut it |
|  |  |
|  | e |
| nursery row is complete，and it should be resu | utilized to good advantage on at smal！area．A con－ |
|  | nches．1t，like |
| alching of soil or straw in the winter will ury from froct | the tile，is simply placed ower the celery plant whoch is allowed to grow up through． |
| When the wood is cut in the fall it can | A patent bleacher is now on the markel which gives |
| over winter，and planted in the spri | results．It is 12 imehes wifle and eomies fin by |
| bundles and bury them upside down in movist sam！ |  |
| ， | vantages to recommend it |
| and heat are more plentiful，this causes t |  |
| a． |  |
| in the（ellar in damp）sawdust，which | sition of the sutmarine to the Admiralty，but |
| sure better |  |
|  |  |
| ans the enttings are set out and are ready in a shor | put |
|  | caux |
| of the work to be done during the off season． | en |
| aselerries ma | mate of lead will destroy biting or chewing |
| I stally ine | 促 |
|  |  |
|  |  |

## FARM BULLETIN.

## Just as You See It.

Editor "The Farmer's Advocate"
It was seeding time and Smith was busy. Being a armer he is busy at almost any time, but he was par-
ticularly busy just now. He got up at five a. m. to ticularly buss yust now. He got up at five a. m. to
get an early start, and when he opened the barn door
the first thing he saw get an early start, and when he opened the barn door
the first thing he saw was the Clyde colt down with the
colic colic. Smith always looks, for the worst first.
"Going to die, are you?" he asked, then hur to the ho to die, are your"" he asked, then hurried back had insisted on leaving. With it he brought a table mpan. They picked the colt up, tied his head to a $2 \times 4$ in the ceiling, measured out the dose and climbed up on the manger. At the very beginning the colt objected. coime show them how much he objected he reared high and
cating at them with his fore feet. Another came pawing at them with his fore feet. Another
halter shank was found and he was tied down as well as up, the bottle was jammed between his teeth and the
contents poured into his mouth. And then he wouldn't contents poured into his mouth. And then he wouldn't
swallow. Smith punched and pinched and poked at swallow. Smith "punched and, pinched and poked at
his neck and his "Adam's apple," but to no avail. "Hold his head high and 1 Ill fix himp," he commanded, and jumped down. A slab of wood was found and soon there was a resounding whack. During the excitement the colt swallowed the mouthful, which was the consummation desired. A good half hour, however, was lost-lost
never to return. Two hours later in the feld the lever arm of the seeder broke. A little thing, but sufficient to put him out of business until mended. There was more hustling around, and not to be outdone by fate,
Smith loaded his wagon with $\$ 2.50$ wheat and started for town. By this time he was sure the world was all against him and he was pretty sore. On the way in he met an automomile, and altthourhe. there was room to turn out he forced the thing to take the rough ground.
The auto retaliated by slipping right past the colt's nose The auto retaliated by slipping right past the colt's nose Nothing further happened until the horn
Smith always puts a blanket in the the load was weighed. and the elevator men always seem to do their best to destroy
said Sust a minute and I'll help you with that end gate,' said Smith. But there was no end gate to help with. the blanket out to a precarious position. Smith was about to holler.

That's nothing," said the elevator man; "a fellow that came in here yesterday lost nearly 40 bushels, and was evidently running both ways. -At the livery barn he asked the man to keep his eye on the colt a little. "Had the colic this morning before I came away," he
"Horse died here this morning with the colic," said the man; came in yesterday, and we did every sting Perhaps his luck wasn't so bad after all. The worid was all right; it was the people. He went in the hardware store to buy something. The merchant was sitting
crosslegged on his counter, crosslegged on his counter, busily talking. Yes, he find them and help himself. Smith wasn't in that frame of mind, however, so he turned around and walked out. The other hardware store didn't have the thing at ali would go home without it The make it so decided he his seeder lever and condoled with him on had mended his end gate. From somewhere he produced an end gate
he would lend him for a few days. He assured him, howhe would lend him for a few days. He assured him, how-
ever, he would find it on the way' out. Smith knew better. Some goat would pick it uut and carry it off. had laid it carefully on the roadside. He Some one that and at the blanket holding for so long. A half hour
little roughe het another automobile. The road was a
he pulled off and shared it $50-50$ with him. The owner saluted mightily and seemed pleased. As the miles rolled away, mighth'y and seemed pleased. and over in his head turned the words:

Laugh and the world laughs with you
When he got home he took a smile to the glass-and
A. E. Roberts.

## Wanted, a Calendar That Will

 Work.I got ten calendars last Christmas. All sorts. They
are variously adorned with college buildings, pretty are lis, poetical quotations, historical dates, scriptura
gexts,
texts, advice as to investments, flags of the Allies texts, advice as to investments, flags of the Allies
first aid to the injured, and other useful and ornamenta
thin things. Some of them hang on the wall until they fal Some of them I carry tin my pocket until they drop out. Some are worth more. Some are worthless. But not one of them is the sort of calendar I want All I want is a calendar that will tell me what day it is
A clock tells you what time it is. A calendar only tells A clock tells you what time it is. A calendar only tells
you what time it would be if you knew what time it
was. If you know the day was. If you know the day of the month it will tive your
the day of the week. If you know both the week and the day of the week it will give you the day of the month. "Let's see, ,is this Thursday the twellth or Friday the
thirtenth"

This is a serious matter. A man may imperil his immortal soul by eating meat on Friday, carrying an umbrellaa on Saturday or fishing on Sunday, according that I would trade off to get the orman my calenation I want. I never cared whether the Old Man in the Moon faced one way or the other. I never had occasion to of Bergen-op-Zoom Number of the date of the battle under Leo or Virginia. But I have lost friends and dinners and lecture engagements and theater tickets because I made a mistake in dates.
I have a flopper calendar on my desk. But I forget whether 1 flopped it over the night before or left it til
morning. Sometimes the wind flops it. Sometimes $m$ S wife does the flopping. Sometimes we all three do it It 1 find half the week gone and nothing done ye wo ought shed its easy enough to invent a calendar that nally instead of annually. There are calendar clocks, but most of them never learn that simple rime. "Thirt days hath September," etc., and the best of them go razy on Leap Year
and the insurance Christmas my relatives and friends and togethrance, printing, and trust companies would
clut me a calendar that will work -Edwin E. Slosson in the N. Y. Independent.

## A'Special Crop Bulletin.

A special press bulletin issued July 5 by the Census and Statistics Offce gives the following report on the condition of field crops throughout Canada at the end or June, as summarized from .telegrams from selected correspondents, including the Superintendent of the Dominion Experimental Farms, by arrangement with the Department of Agriculture. The reports for Saskatchewan and Alberta are furnished by the re pective Departments of Agriculture for those provinces
In PRINCE EDWARD ISLAND the weather condifions have been favorable for maximum growth, and a heav hay crop is assured in most districts. Cereal crops are surdy and healthy in appearance, while early whea ell feet high. Roots, corn and potatoes germinated well and are growing rapidly. Æruit of all kinds is mos In NOVA SCOTIA seeding since the bloom opened weather; 'but crops since June 12 have been progress. Fruit prospectsare good. In NEW BRUNSWICK a wet, cold May was followed by a wet June. The grain is probably above average, though below expectation,
owing to wet and shortness of fertilizers crop assured; pastures are luxuriant and the milk flow large.

Quebec.- Vegetation is very backward, and the especially those on low lands and strong soils. Hay promises to be a big crop. Potatoes look well. In some parts seven inches of rain fell during June, and the
acreage under field roots will be considerably increased owing to the failure of grain
having a good stand and being even and well stoell first inss average crop. Corn is good and roots ated hist class. All crops are from ten days to two weeks
late. PETERBOROUGH: Fall whent only half a crop. Early sown spring grains are promis-
ing but from 10 to 15 days ing, but from 10 to 15 days late. The thay crop promis light;
corn, potatoes and roots are doing well corn, potatoes and roots are doing well. WATERLOO,
N. R.: Wheat crop small, just heading out, spring crops promise well. Corn shows poor growth. Potatoes
look fairly well. HYDE PARK: All crops great headway though six weeks late. Potatoes king abte, bugs voracious. No apples. A great crop of
strawberries. PETROLIA: Season late. Fall wheat and spring grains promise a heavy crop. Hay, clover fall apples 15 per cent., peachese only fair. June cent,
NEW LISKEARD: In Temiskaming District. slightly below average, and later than last year. Fall average, clover and pasture excellent. .Wring wheat growing weather future prospects are good. .t.
Manitoba.-DAUPHIN . Wheat two weeks later last year, cut one-third by dry seed-bed, May frosts and
prolonged dry weather, plenty of moisture now, Wheat very ragged. Much in shot blade and some just com-
ing through. Oats good and barley very good. MILI
WOOD: Since good growth. Wheat unevenced on 19 th all crops made
in shot blade. DOM INION Cermination; 50 per cent. crop almost assured. With favorable weather wheat
late harvest there should be grains and fodders should a be an abundance of coarse
yegetables. ELM CREEF. Sig yield of potatoes and Light showers ideal for the formation of whoat shape Hoed crops uneven and pastures very light. MANI.
TOU: Not sufficient rain. Severe frost night of 21 st. wheat and oats very short and heading out
FRANKIIN. ately, but lack of heat. A A fair promise on presen inch rainfall before last week of June. Severe late an and high winds make the crop conditions the worst in uneven. Almost no growth of hay weeks late and very

FORD: Crops two weeks later than average throug repeated frosts and dry weather. Favorable rains have failen recently, and prospects are for a good half crop Hay light and pastures poor. PIERSON: Late fros have done great damage, 75 per cent. of wheat frozen
coarse grains late. With best of condition may bushels per acre of wheat. Prospects better for barley oats and flax. Root crops damaged by frost.
Saskatchewan.-The provincial Department of Agri culture reports that the crops are from seven to te
days later than last year. Some wheat is in shot blade days later than last year. Some wheat is in shot blade
The straw will be short except on summer-fallows wher abundant rains and warm days have caused rapi growth. About half the summer-fallowing is com pleted, and the acreage of new breaking and summer
fallows fallows shows slight increase over last year. The Domin
ion Experimental Stations report that rains all the month have worked favorably for all crop Hay crops not fully recovered from drought in May but grain and hoed crops are excellent. At the SCOTT Station crops were injured by both frost and drought The total rainfall for June was less than one inch
Hay crops ' promise to be very light and short in straw. Many vegetable gardens proving short in straw. Many vegetable gardens proving
failures. At INDIAN HEAD the weather during June prog
progress. Alberta. - The Provincial Department of Agriculture
reports that the crop reports that the crop conditions during June were very
encouraging. The first two weeks were cool and the late-sown crops appeared very backward. During the last two weeks the weather has been ideal over the whole province. Growing showers visited a large percentage of crop area, and heavy rains with warmer weather where most needed. Slight frost and hail first part of
month, none since. The month, none since. The Dominion Experimental June will average below normal temperature. Wheat 35 , oats 24 , barley 22 inches high. Hay prospects
good. At LETHBRIDGE the rainfall during June has been light, only about one the rainf at during June has last fifteen years. All but late-sown grain is in excellent The total but in imperative need of immediate moisture. are total area in crop is greater than last year, the British Columbia--AGASSIZ: Most crops good later than average, but earlier than last year. INVER
MERE: crops damaged by cutworms. SUMMERLAND. Anom crop 20 per cent. higher than last year Grain making good growth. Hay good. SIINEEY: May crop about potatoes, roots and beans doing well. potatoes, roots and beans doing well. Orchard fruits
except cherries abundant. Small fruits average, with strawberries excellent.

## Conditions Favorable in Halton County <br> Editor "The Fa

The crop outlook in Halton County is better tha last year in most respects, although the hay crop may not be so bulky as it was in 1916, but it has the ap pearance so far of being more substantial in feeding than usual. The wheat as much value if not mor s the hay. In most places it witlook is not so good he spring, but, taking it as a general thing it will wheat up or tho thirds crop. A few plowed the they had and ift it sowed spring grains, but I think that ooked very poor in the spring, but it is going to be be air crop after all. The spring grain looks well an gives promise of a yood crop. Although the seeding
was late in this district, as in all was late in this district, as in all others, the seeding is
coming on fast now that fairly warm weather has set
in. in. We consider that in this district the season is from the tackward weeks later than usual, which accounts for year. The fall state of the crops for this time of the has been known to be as far advanced by the first weel in June. Mangels and corn are coming fine, also some
turnips. writing, whereas some are almost ready to thin Thes latter were sown earlier than usual. Although the cro outlook is good many people around here have planted
beanis this year which crop no lack of this kind of food next winter. Halton Co., Ont.

Startling Prices for Herefords
The 260 Hereford cattle, including many Repeater Mo., June 26 and 27 , realized the grand total of $\$ 396,375$, or the remarkable average of $\$ 1,525$ each. The cows on the average for $\$ 1,220$. The males averaged $\$ 3,198$ There were nine head of show and herd bulls which were Teatures in the sale, and these realized an average of which W. A. Pickering, of Kansas Repeater 7 th, for New York City. In femaleo to George G. Moore, blst, the dam of Repeater 7 th, with a bull calf at foot
by Repeater. W. A. Pickering took her uls
The sit The old buli Repeater, which is now almost ten years of age and is the famous ancestor of many illustrious
things, remains in the Harris things, remains in the Harris family, being purchased
by Wood Harris, Gird McCullough \&,

# Toronto, Montreal, Buffalo, and Other Leading Markets 

Week Ending July 5.


Receipts and Market Tops.


| Week <br> Ending <br> 4,751. | Receipts CA |  | cattle $_{\text {Top }}$ | $\begin{aligned} & \text { rice Good Steers } \\ & 1,000-1,200) \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  | Same | Week | Week | Same | Week ${ }^{\text {Ending }}$ |
|  | 1916 | June 28 |  |  |  |
|  | 4,783 | 5,158. | \$11.60 | \$10.25 | \$812.25 |
| 8885 | ${ }_{737} 87$ | ${ }_{483}^{628}$ | ${ }_{1120}^{12} 0$ | 10.00 | 11.80 |
| 2,153 | ${ }_{1} 521$ | ${ }_{2} \mathbf{4 8 3}$ | 11.50 | 9. |  |
|  |  | 529 |  | 700 |  |


|  | Receipts | calves |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | Sa | ek |
| Ending | Week | Ending | Ending | eek |  |
| July 5 | 1916 | June 28 |  | 1916 |  |
| 1,019 1 | 877 | 1,135.. | \$15.00 | \$12.50. | ... 815 |
| 1,390 | .1,711 | 1,920 | 12.50 12.50 |  |  |
| 207. | 190 | ... 118 |  | 10.00 |  |
|  |  |  |  | 8.00 | 11.0 |




## The Molsons Bank

is always glad to assist farmers in any legitimate financial way to make their farms more productive．

State your requirements to our local manager and he will be glad to advise and assist you．
and devite heary mecipt during the prices were made wel Wicdnceday and the latter day at \＄15．．an per humdrad wetets，and other gradosoteady．Promper are for a teady we trong market （of the
 powing house－purchased！ 19 ，alse
 butcher cattle， 170 hogs，and 20 ，heep． Shipments hack to country pints mon－
sisted of 15 calves， 5 bulls，ti3S stocker． St fecelers，and a hog－Shipments butcher cates and st fecler
The rectipts of live tow marketed

 hephand 1te，wion hogs compared with and 1x1，29i hogs，reciaed，huring the

Buffalo．
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いump112 12．
 renty sale during the week at $\$$ s？ bos．
Ban
Cherrio．Cumblath cating cherrio





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So man
liand matan

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Chicago


Open Thy Doors.

'Romany Life


$\qquad$ the merry party broke up.
"It was nearing the time when the
final good-the would be ciid and all would again go on the road, so that thi
was the last occasion during the hop picking upon which so general a gat hering meet again in at week or two, others a number present whom, I did thete was
to rece again for a gooed while. I received many a warm handshake and the al-


The Caistorvillians Institute.
The Caistorvillian

$\qquad$ Whan in the window folks. see. But if - mow, theress mose sure to be Grece with sh shining, whether yon If in winter tis extremely cold, if in sum But mer sorzaling hot, me wether almout the wer Though the rould bee thee inches deep Arciust, dren or three feet deate ith Arrived then at the apminted pluce, our We apen up, the meeting to the tune of The minutes firom the last menth be the That ihose who were not presem will
$\qquad$

Method of Carrying Baby and Baskel

The she said, Oh! but doctor my house There would not be clean There would be dust on all my carpets why they wouldn't be fit to be seen;
must tell me something else, for I must tell me something else, for
cannot do that you see, All the work that is done in the house depends entirely on me.
The doctor thought a moment and then "Wade this reply
"Well, madam, there's just one thing to do then, it's go to bed and die.",
Before we criticize a neighbor's house, let's Before we criticize a neighbor's house, let's
be sure that we are right,
And that we'd do her work far better if If we had her battles to fight, If we cannot take her place and do her
work, let's look after our own backyard,
Our lives won't be any happier by making
It some one else's life hard,
other's affairs alone.
Dare you ask of some one else's child
What you've never asked of your
own?
There's it's the giving up some of our joys they are some one else's boys,
If our loved ones who are with us have good socks or none at all,
Lets be loyal to our country for Lets be loyal to our country for fear the Our men folk ought to be willing that we of our time should give,
For while other men are fighting, they If there's nothing else to do then, rake over your neighbor, but we'll surely
prosecute prosecute
Anyone who says a word against our

## Hope's Quiet Hour

The Conqueror of Death. Our Saviour Jesus Christ, who hath
aboished death , and hath brought ifite and immoratility to light throush the

High-seeming Death, I dare thee! and In Gave hope time of show ing to thy face May cast away the tor ansetios
 In thes days the word of the premper



 lom and wary juestaton atce the wilderness of sin. Death oomes as at
friend to the aged and the suffering:
and very often they watch easerlys for




 paper, sopertel is "missing", or "Killeel Then we look at our text which de-
lares that our Satiour Jesus Christ, has
abolished death". What a tremendous "abolished death", What a tremendous
statement Did St. Paul mean what he
said? ls it true? expected to pass out of this state of
existence l,yy any other than the usug?
way-unless (hyist should return first. But he expected to pase the gates of
death as a conqueror, not as a captive,
in the train of the Lord of life. It waw in the train of the Lord of life. It was
his hope and his expectation ture, that
with all boldness, as always with all boldness, as always, Chrit
might be magnified in his body, whether
thy his life or his death. The great

Apostle, who lived in and for Christ was not afraid to die, because he knew that the gates of death opened into the
paradise (the park) of his loved paradise (the park) of his loved Master
The sting of death was gone for Christ had paid the price of sin and set the repentant sinner free.
And so we, who have enlisted in the army of the King, are called to look
death in the face unafraid. A soldier is ashamed to be afraid. A Britisher who is a coward knows that his fears bring dishonor on the Empire. For the honor of the flag he must conquer his fear.
And so must we. When we allow ourselves to grow anxious and troubled for fear of evil
tidings from the battle-front tidings from the battle-front, we are
proving that we have no real faith in proving that we have no real faith in
Him who is the King of all nations and Conqueror of death. If we have no faith in His love and power let us openly
acknowledge it; but, if we claim to Chnowledge it; but, if we claim to be
Christians, we must try to trust our Leader. When fears crowd in trust our loving heart of a mother or a wife they hould be taken straight to Him who has
conquered death and they should be conquered death and they should be
left with Him. If the anxiety should be changed into
certainty, and heartbreaking certainty, and heartbreaking sorrow
should take the place of anxiety, remember that Christ has abolished deat and brought life and immortality int full view. Of course, there must be
deep sorrow in a home when the messare deep sorrow in a home when the message
comes that a loved member of the family has passed through the gates. But Christian should never speak or think
changed the temporary life for the eternal life. . with a last smile as a
farewell from my beloved family am I undertaking the eternal journey. Your always remaining husband, father, nd brother.-Alay
Was that brave spirit beaten down and
vanquished? Or was he-like the Maste e followed-a conqueror over death? And then there are the women. Arthur Gleason, who was a Red Cross worker
at the front, wrote of what he saw: "This war,", he declared, "has been a revelation, of womanhood. To see one of these cool, friendly creatures, American
and English, shove her motor ar and English, shove her motor car into
shell-fire, make her rescue of helpless crippled men, and steam back to safety, is to watch a resourceful and disciplined
being. fear of being killed. Give them a job under bombardment, and they unfold the stretcher, place the pillow and tuck in the blanket, without a quiver of ap-
prehension. That, too, when some prehension.
the men are scampering for come cover. they were not thinking of themselves but of others. They wanted to hel
where help was desperately needed Whether they realized the fact or not they had caught the inspiration from
One who did not want to be ministered One who did not want to be ministered
unto but to minister, and who went about doing good.
One of these brave women-Mrs. One of these brave women-Mrs.
Gleason-said "UWe Gleason-said: "We, all of us, would go
for a Belgian first, and tend to a Belgian or a Belgian fiist, and tend to a Belgian
first. We would take one of our the roadside in preference, if there wa

The Greek Royal Family



 I know they were met all saints these for the patient Ge anything but kindl
soldier
 around Him on canthered young mein some of them would home count ry, where having fought a goorl fight. Nave we. that wonderful trutho that it is a heaurtif not salely trast thase eager, reekless, who have been unkind to kis to those keeping?
iod
bravel.

| as if a young life had been cut off in its prime. Don't talk as if death had con quered that daring soul. <br> he <br> Our (iod, to there sweet pratiscos rian <br> From youthful lipse in paradise: <br> And nourished in the courts of lighte: <br>  <br> -but I know alon that passed <br> dear to 11 im <br> around Himen on bathered young men too, when He finished his carthlv conere, having fought a grood fight. May we undereloped boys in Ilis wise and tender keeping? <br> braved grant that we may lace death as Our turn comes: "looking humb that fuller light which shall break upon us when the morning is come upon the <br> The Comqueror of death was <br> man, and many young men have followed <br> Him fearlessly A young Belgian in <br> Antwerp-knowing that the call had chiddren a parting message of life not death. This is part of his letter: "When you will have received this I shall have |  |
| :---: | :---: |



Frome afficer the one day thus spoke: The sergeant came in haste just then; "Doggy's Light Infantry!" Thus ciyp, took up his quarters with the guard;
so faithful, soor promotion

Old Mr. Toad Shows His Tongue.
most valisfactory tompue tongtic on the tact he is quite sure that withorld. now at all, and I don't his neighbors know anything about that other tongues. Peter Rabbit mos, Until Old Mr. Toad showed him after The mysterious way ind puzzled over
the anich bugs and
flies disappeared wh o come within two incles or less of ()ld P'eter would watch them and right anish. Yet so far as he could see Old Mr road hadn't moved. But there was no oubt that those bugs and flies found Seter had only to look at the satisfied expression on Old Mr. Toad's satisfied Mr sure of that. Then by watching Old
Mry Mr. Toad very sharply Peter discovered
that Old Mr. Toad just darted his tongue
out like a tiny flash and brought back the bug with it. What Peter couldn't
understand was what Old Mf. Toad did with a tongue that would reach two
inches beyond his mouth. He said as much. "lil show tongue and then you'll "I'll show my tongue and then you'll
wish you had one just like it," said Old wish you had one just like it,", said Old
Mr. Toad, with a twinkle in his eyes. re opened his tongue out its full length. "Why!
Whyee!" exclaimed Peter. "It's fastened Whyee!"' exclaimed Peter. "It's fastened
at the wrong en!"'" Toad, indignantly. "If it it wasn't fastenerd at the end it tho could 1 runit out sof far",
 throat, protested Peter. wours is
fastened at the other end way in the
very front of your mouth. I never heard very front of your mouth. I never heard
of such a thing." of such a thing. a great many things you
"There are
have never heard of, Peter Rabbit," replied Old Mr. Toad, dryly. "Mine is the right way to have a tongue. Because it
is fastened way up in the front of my mouth is astened way upin the ronto of it. You
that way I can use the whole
see it goes out its full length. Then when see it goes out its full length. Then when
I draw it in with a bug on the end of it 1 just turn it over so that the end that
was out goes way back in my throat was out goes way back in my throat
and takes the bug, with it to just the right place to swallow." this over for a few Peter thought this over for a few
minutes before he ventured another
cuestion. I begin to understand," said minutes. I begin to understand," said
question.
he, "but how do you hold to on the bug with your tongue?" "My tongue is sticky, of course, Mr. "My tongue is sticky, of course, Mr.
Supid," replied Old Mr. Toad, looking
Mery much disgusted. "Just let me touch stupid, replied Old "rr. Toad, looking
very much disgusted, "Just let me touch
a bug with it and he's mine every time." a bug with it and he's mine every time."
Peter thought this over. Then he felt his own tongue. "Mine isn'
sticky,"' said he, very innocently. Old Mr. Toad laughed right out.
"Perhaps if it was you couldn't ask "Perhaps if it was you could
so many questions," said he. So many questions, " s,
watch me catch that fly."
His funny little tongue darted out
and the fly was gone. It certainly is and the fly , was gone. "It certainly is very handy," said Peter, politely. "Mr.
Toad, I-I think you are very wonderful." "ot at all," replied Old Mr. Toad. order to live, just as you have the things you need. I couldn't get along with your
kind of a tongue, but no more could you get along with mine. If you live long
enough you will learn that Old Mother Nature makes no mistakes. She gives
us all what we need, and each one has us all what we "need, and each one has
different needs." Thornton IV. Burgess, different needs." Thornt
in Our Dumb Animals.

Senior Beavers' Letter Box Secoar letter to your chavers.-This is is ny My father has taken The Farmer's Ad Werate for a number of years, and he
like it fine. Ilive two miles east of
lic town of roculis on a armm ituated the town of Iroquois on a farm situated
on the bank of the St. Lawrence at the narrowest point. I have one little
sister her name is Jean. She is sixten

For pets we have two logs one is sinall wocker, and a large collie. The
One waisy and the other Jack.
M. Gather has a milking machine and I enjoy going out to watch it work He keeps an Ayrshire herd and we have
thirteen little calves. I am in the fourth thirtsen nittle cavess 1 am in the fourth
look and intend writing on the entrance examination next month. Our teacher's name is Miss Mott, and she is very nice
Iloping this letter will escap Iloping this letter will escape the wi p. b.
and I shall see it in print. I will close with a riddle. Moses sleep five in
When did Mon Ans.-When he slept with his fore fathers.
Iroquois, Widen
Ont.

Deat Puck and Beavers.-This is my second letter to your charming Circle.
It is about two years since I last wrote just when I had the measles. Having seen my letter in print I was encouraged
to write again. I live on a farm of one to write again. I live on a farm of one
hundred and twent-five acres. My cate "" as long as I can remember and likes it very much. 1 am about three-
quarters of a mile from school and go quarters of a mile from school and go
every day I can, I am ten years old, and

I am in the fourth book, but as I am not brothers, I am the fourth oldest of the going to try the entrance I stopped is Mr. Shaw and we like him. The past two came to our school during the to stay another year. For a pet I have a dog called Bob, he is called after Lord moberts. I like to read and have read Montgomery's books and as we take "The Presby terian" and "West-
minster" I will have a chance to read minster" I will have a chance to read
brothers, I am the fourth oldest of the
family. I have read a great number of bamily. I have read a great number of
books, some are: "Luke Walton", "Phil
the Fiddler", "Walter Sherwood's Prothe Fiddler", "Walter Sherwood's Proletter is getting long I will etc. As my few riddles:
What is smaller than an ant's mouth? What goes up stairs on its head? Ans.a tack in the sole of your boot.
What is the dirtiest thing in the kitchen? Ans.-The clock because it
does not wash its hands ind


A German Sign Post Left Behind in a German Retreat Made a Good Background for These British Tommies.

As my letter is getting long I will close, I hope the w. p. b. is killed at the
wishing the Circle and readers every, war before my letter arrives. Wilton Arthur D. Grieve.
Wilton Grove, Ont.

Dear Puck and Beavers,-This is my first letter to the Farmer's Advocate. I your paper very much. I go to school every day and am in the junior fourth school. Our teacher's name is Miss Campbell, and we all like her fine. I am thirteen years of age, and am five feet tall, I have blue eyes, and light hair. This
is a terrible war, everything is gone up so
high. I have three sisters and three
name is Harry. I am very fond of re: "The Cash Boy"" "Bob Burton", Andy Gordon", and a lot of others Well I will close wishing the Beavers every success, also hoping to the Beavers innie Hanningan, Ir. IV class, age 12.

## Victory Over Wounds

 The Disabled Soldiers' Resurrection, Canada should, be as proud of her wounds as she is of the glorious fights in which they fell. Their struggle up from hard, and even as heroic often as desperate defence of Ypres or their dashing capture of the Vimy ridge. We hear little, altogether too little, ofthose hard-won victories won by disabled men, because they are fought by disabled seclusion of a hospital, not in the theatre of war with the whole world looking on. But such victories equally deserve same spirit, the same pluck, and still more indomitable perseverance. A preacher on Easter morning was
thanked for the inspiring sermon he had just preached, on the resurrection. He said: "I had my text sitting in front of me-a man in khaki, with an empty sleeve." He has had two resur-
rections already. He was buried by a shell explosion, and was dug out only just in time to save his life. This was
the first. He spent months in hospital, fighting his way back to health. That

Doctoring and nursing, of course, did much for him; so did the exercises and haps the best parovion haps the best part of the treatment.
But the man himself was working out his own resurrection, by resolutely putting his own will power
into the task. Now he is into the abler man, he says, than he was before, in spite of' his lost arm.
While the rest of us are thinking of won a resurrection this side of it, to a new life of activity and independence among his fellow-countrymen.
Authentic cases resembling
not rare in the records of the Military no rare in the records of the Military
Hospitals Commission. Here are a few that have just been communicated to us: Patricia's Regiment was wounded, re turned to Canada, spent three months in a convalescent hospital, and now earns
double his former pay, having taken


The Officials and Nurses of Base Hospital, Unit No. 4, U. S. A., Received at Buckingham Palace by King George and Queen Mary.



An Italian Military Oven on the Trentino Front

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the Maritime Prowit

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crawled over to the emergency oxygen
container container. He opened the faucet and
inhaled the fragrant stream of gas. His inhaled the fragrant stream of gas. His
head began to swim and a sweet fire ran though his veins. Then, with an
rat.
effort, he rose to his feet. The out. effort, he rose to his feet. The out-
lines of the objects around him were lines of the objects around him were
strangely distinct, and the faces of the strangely distinet, inmloringly turned to
men which were
him-some of them bearded and high-him-some of them bearded and high-
cheek boned, others tender and child-like-appeared to him infinitely and
poignantly human. In the corridor one of the men. The latter stood against the wall and gulped the air like a hst. Noticing se commander, he
made an effort to bled: "Beg pardon, a bit unwell." An-
drey drey leaned over him and looked into
his eyes. A film of death was beginhis eyes. A film of death was begin-
ning to veil them. Andrey cursed under his breath and, turning sharply to ward the telephone tube, gave a com-
mand to rise. Kate shook and dashed mand to rise. Kate shook and dashed
upward. The upward. The ascent lasted four min
utes and a half. Suddenly, Kate stood still, and light fell on the screen of the periscope. The men crawled up to the main hatchway and unscrewed it. Cold
salt ait rushed into the boat swelli sale air rushed into the boat, swelling
the chests of the men and turning their heads. Andrey leaped on the bridge uttering an involuntary cry as he mee
the strong light. The evenins sun the strong suspended above vast masses
sole of warm clouds, and the sea was all peace and quiet.
Holding the sextant in his trembling
fingers, Andrey began to fingecs, Soon a loud buzzing was heard
tions. in the sky. It was followed by the measured slight crackling of a machine
gun, and from the hull of the boat came a sharp rat-a-tat, as if someone was throwing dry yeas, on it.
was circling above Kate.
Andrey bit his lips and kept on work ing. About him a squad of his men
were loading their rifles were loading their rittes. The hydro-
plane almost reached the surface of the
sean then sol sea, then soared with a shrill "F-r-r-r,",
and flew right over the boat. A young, clean-shaven pilot sat motionless, his
hands on the wheel server gazed down, waiting. Suddenly he lifted up an oblong bomb and hurled it into a tube. The shell fashed
in the air and plunged into the sea it the air and plunged into the sea at
the very side of the boat. One of the men fired. The observer threw up his
leather-covered arms with spread-out leather-covered arms with spread-out
fingers; and slowly circling under the
fire oft the subuarine crewt the aircratit - fire of the submarine crew, the aircraft
soared upwartI
Over the ridge of reddish mountains there appeared another aeroplane, look
ing like a long thin line her way with thace line. Kate picked
hease across the
orange-colored orange-colored waters as if across the
through molten through molten glass. Andrey but-
toned his coat, pushed his cap over his toned his coat, pushed his cap over his
eeves and walkig few paces on the
bridge, said wing a grimace. out oll Yakovlev the mines aro behind "Wsell,
what are we going to do now?" This region, sir, abounds, in under-
water reefs and sandbauks, "That is is just titand ans." 1 would not risk
sailing under water. saing under water. . Fraised hait a mo-
ment.
The sund Has. and sun was already in the clouds
and, replete with its orange glow, they
lit the lit the waters. A A violent. whizzzing
sound came from the west. Traing
sols observation dlasses on the
his Andrey ordered glaseater on the suneed. A. Arset
ade hissed on the right, and a jet of
ade water appeared on the quiet surface.
Kate tacked sharply toward the dark ening mountain rifge, and behind in
her shadowy wake, another bomb burst and blossomed out into a small chorst.
Kate then turned east again bu lo in front of ther, east again, but now There, shells burst and sputtered fire.
The scouting hydroplane dashed above The scouting hydroplane dashed above
the suburarine
lioked a bat, two pale faces right above the stern a grenade burst
and the bearded Shubin droped his and the bearded Shubin dropped his
rifie, clutched his face, toppled over the
railin railing, and disappeared under the water Andrey, and watching where the shells
fell thickest tell thickest began to give his orderss
Kate circled, like a run-lown hare. Ali
along the darkening sklow Rate clrcled like a tun-down hare. Ali
along the darkening kyyine were seen
smoking stacks of mind smoking stacks of of mine-laye were and seen
stro-
strovers, and their ruthless ring was
rapidly tightenine Having lost her wireles. mast which
was shot off by a shell. Kute was was shot off by a shell, Kate was now
ning awash, Six sparks blazed up in clae dark below the rocks, and six steel-
clad demons hissed above the boat. The clad demons hissed above the boat. The
oblong shadow of a ship was gliding along the coast. Kate shook, gand a sharp-nosed, blind torpedo detached it-
self from her body and glided under self from her body and glided under
water to meet the silhouette of the ship water to meet the sithouette of the ship. tainous mass of fire and water rose where formerly projected the stacks of
the mine layer. Then the the mine layer. Then the mountain
sank, and the silhouette disappeared Kate entered into a baylet among the rocks, submerged, and lay down on the sandy sea-bed.

Two weeks Kate lay in the sea inlet, completely cut off from the rest of the and only day she hid in the deep, rose to the surface to get a supply of air. It was necessary to take the greatest precautions, for there was little hope
that the enemy believed her to stroyed by the mine-ships. Here deexcerpts from the diary which Andrey during those days aboard the sub-
"The excitement of the battle lasted events or four days, then all the recent We all live somewhere on the border land between life and death, beyond the pale of time and space. I begin to un-
derstand the flies which in between the frozen window-panes Most of the time the men stay in thei berths half asleef, half awake. As for myself, I often lie on my couch with
my eyes open and without simple image in my head. One feel ing pervades me with limitless powerthat of sheer being. I feel being not as a tangle of separated episodes and frag
mentary pictures, but as an unbroke infinity stretching somewhere above me beyond the watery wall and beyond the it plainer. At times my hannot make beat faster, as if trembling with the foreboding of a deeper understanding of what being is. It is such a strange sleeps and dreams of battles akovlev: he bedecked havens, of stormy seas and women; he leans over his berth which is right on top of mine and recounts to me "The Prince is very ill. The absence of sounds has been preying upon his
mind all this time. To-day, the eleventh day of our stay here, he became deliriThe and fell down from his upper berth. ood, and bring him extra allowances of Our food supply will last us for one week if we keep to a starvation diet almost stopped all conversation. They are a meek sort and if they once grasped
the reason why, they would die with murmur. May God spard die without just suffering. They greatly pity the "Two days later Prince Byelopolsky face with great precautions. Our deceased comrade's body was wrapped in
linen, and a shell was tied to his feet. The crew chanted a prayer over him in muftled voices. The first thing I saw hhe stars: huge and thick sown, whey
shone in the heavens and in the waters seacoasty. On the right rose the steep rocks and the black battlements of its looming high into the trees above them the heights came wafting a strong fra"The Prince, was twood and flowers. of the boat. His was taken to the deck ticable under the linen. Theofile was no-
glided overboard and water without a a splash. The sailors
silently crossed silently crossed themselves. A bat scur-
ried by. bay the silhoueyond the mouth of the slid by. 'They' have not yet given ship up. From afar off blazed forth a searchbehind us, lighting up crooked twige stones and mossy rifts. Then the beam swept the sky and 隹gan to search the
bay. The birds twittered bay. The birds twittered querulously, from us. Had distance of several yards light turned the light but a hair's search'The bluish thave been discovered
water and in the depth a shoal of be-
wildered fish. Again did a startled bat dart through the air, and night butterflies hovered in the light. Then the
beam hesitated for a while, and leapt to beam hesitated for a while, and leapt to
the summit of the rock; its jagged edge the summit of the rock; its jagged edge
flared up and the scream of a discontented eagle came down to us. We plunged again into darkness and non-
being. "'The Prince is dead.' I repeat this
phrase many times without understanding it. To die on the earth is to cease
seeing, hearing, feeling. To die is to seeing, hearing, feeling. To die is to
remain all alone, in absolute solitude, as Jonah was in the whale's belly. Here I am lying motionless, surrounded by
velvety darkness and dead silence in a velvety darkness and dead silence in a
steel box resting on the bottom of the steel box resting on the bottom of the
sea. If I grew cold and cased moving altogether, what would the change amount to? Almost to nothing. Per-
haps all the difference would be that my haps all the difference would be that my
spirit, now still chained to the round of spirit, now still chained to the round of
daily duties would become entirely free. "Eating has become replusive to me. swallow a few spoonfuls of thin to swallow a few spoonfuls of thin soup.
I barely manage to pick my way to the dining-room and to see to it that all the men are at the table and eat. I have discovered that the feeling of hunger is painful only at first. Later on a crisis
occurs, when the body appears to melt away, as it were; all your vital force is transferred into, consciousness, and all
your perceptions are strangely sharpyour perceptions are strangely sharp-
ened. In such a state a full stomach is loathsome.
This feeling of physical decline has moments of ineffable beatitude. They commence with a light fever and then
the most delicate chill pervades me, and I cease feeling my body. A sensation of freedom and sadness rises in me, and it is as if the whole universe, with the am dissolved in it. I' have a feeling of Ireedom and yet I am sad, as if I have
not done my supreme, most duty. But what is this duty? silence awhile and then cried. He kept long he lies stretched on the Prince's berth and does not tell me any more of
his dreams. his dreams.
ships keep on watching the seacoast. Our food supply is out. The only pro-
visions left are the emergency ration for one day, which we can touch only when Kate herself will be in imminent danger. If we succeed in catching some more days before attempting to save Kate or explode her in case of failure to reach the port N . My men are pining
away without a murmur, like children away without a murmur, like children.
Yakovlev says he cannot die on his berth; he understands that this is perhaps his supreme duty, but how well would it be to do a little shooting and
sinking and then die from a bullet. The sinking and then die from a bullet. The
child!"
Here Andrey's diary ends abruptly.
For three days the crew fed on the fish For three days the crew fed on the fish
which Kuritzyn, one of the men, caught at a great risk. Then Andrey took the supreme effort to run the enemy's cordon. At daybreak as Kate was nearing the
surface of the sea the crew became aware of a powerful muffled cannonade, and when the boat emerged into the
white fog, the coast was reverberating with the roar and the crash of a seabattle. Mighty broadsides and explo-
sions alternated with the crackling of sions alternated with the crackling of
guns. It was as though sea-devils coughed and blew and roared at each
other. A bewildered sea-gull dashed over the boat."
"Quick, sir," shouted Yakovlev holding on to, the railing, "now we can break
through!" His teeth rattled. through!" His teeth rattled.
The preparations were completed. A
strong gale swept the fog and drove its strong gale swept the fog and drove its
torn masses over the seas, laying bare
the rocky shore Andrey waved his the rocky shore. Andrey waved his hand and Kate dashed out from the bay
into the open. The firing was heard from behind and on the right, and the the crew went through during the last two weeks was now transformed into one
will, which was more impetuous than herself who was rushing along, ripping in $t$ wain the misty morning waves.
To run the line of the enemy's ships To run the line of the enemy's ships
and to bring Kate safe to port, to do burning will demanded something pal-

## Massey-Harris Service

## Talk No. 4.-A Square Deal.

$\mathrm{N}^{0}$O higher compliment can be paid a man than that he is "absolutely square," and what is true of the individual, applies with equal force to a group of men organized into a company. From the very first, the men who have directed the policy of this company, have been men of the highest standing, and the same high principles which guided them individually have been applied to the management of Massey-Harris Company, Limited.

This spirit of square dealing plays a big part in the manufacturing end of the business. Massey - Harris implements are good all the way through ---nothing is slighted because it will not show---the materials and workmanship are of the very best, regardless of whether they are in some inaccessible part of the machine or may be covered up by paint, and it is a well-known fact that paint can cover a multitude of evil. Each and every part of every MasseyHarris machine is built on honor, and you can absolutely depend on it.
Then, in our dealings with our customers, the same
straightforward policy prevails. Our implements are sold on business lines, everything open and above board, and every machine carries a guarantee backed by a company with both the desire and ability to make good under that guarantee.
The steady development from the little country blacksmith shop to the immense organization of to-day, with its. system of factories and branch houses doing business all over the world, is conclusive proof that honest methods have prevailed, both in the manufacture and sale of MasseyHarris implements.

And, when all is said and done, what a source of satisfaction it is to buy from a firm with the full assurance that you are getting a square deal.

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pable. What now guided these men was not calculations or enthusiasm, but a greediness, a longing to possess, strangely mingled with a yearning for destruction. "We cannot make our get-away like
this-turn back or I will shoot myself!" this-turn back or in Andrey's ear. Yakovlev was completely beside himself and his pale, sallow face was twisted
convulsively. . Finally, the large convulsively. Finally, the large
ball of the sun arose, and touched the seas, rolling beneath the fog, into a dull
orange. Near at hand invisible ships orange. Near at hand invisible ships
thundered and chased each other. The thundered and chased each other. gale grew stronger. And sudddenty a
grey mountainous mass loomed up and
emerged from the fog, enveloped in
clouds and smoke. Above its turrets,
stacks and masts fluttered the flag bearstacks and masts
ing a black eagle.
ing a black eagle.
Unable to control seeing that the opportunity had finally presented itself, Andrey rushed down the hatchway, and, knocking down Yakovlev on his way, he proceeded to
load the torpedo tube. Kate submerged load the torpedo tube. Kate submerged
a little and, sailing awash, headed straight at the enemy's vessel.
The shadow. of the hostile ship rocked every now and then wrapping itself in, every now and then wrapping itself in
a cloud pierced with fiery needles of
shots. Kate fired a torpedo, Dut missed her aim. Leaning over the screen and
biting his lips to bleeding, Andrey exbiting his lips to bleeding, Andrey ex-
amined the tiny image of the ship, one amined the tiny image of the ship, one
shell from which struck its target with the force of twelve hundred million pounds. The distance between Kate and the enemy ship kept on decreasing; screen when it suddenly started tacking.
"Another one!" shouted Andrey.
At that very moment a blow fell on
the boat, a loud crash resounded

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Finally, the engineer reported that it was necessary to replace the cylinder,
but that this was hardly possible to do but that this was hardly possible to do
because the supply of candles was giving because the supply of candles was giving
outu Kuritzy started cussing the en-
gineer, the candle factories, the motors out. er, the candle factories, the motors
gind
and their inventor. Then he swooped down on the men at the pumps and or-
dered them to drop dead, but raise the deret then
boat at teast one yard. The men kept
a sirim silence. Finally, the last candle a grim silence. Finally, the last candle went out. The engineer spat, cursed
and threw away his controller. It, It's
all over boys." said someone, and the and threw away sirs comtrone, and the
all over, boys!
pumps stopped. "The sonly sound which now broke the silence was the monoto
nous deadly splash of water leaking down
 to two of the men. "Let us unscrew the
hatches. What's the use of monkeying with it any longer. Feeling their way, several men fol-
lowed him into the corridor, and former lowed him into the corridor, and up the
spiral staircase in the main hatchway spira shat the top, they grasped the bolts
Reaching the to of the lid. "Here's our finish,", said one
of the men. "Shut up, mind your business, an-
swered Kuritzyn sternly,
At that moment the sound of footAt that moment the sound of foot-
steps on he outside of the boat reached their carss ${ }^{\text {Kate's }}$ hull. Kuriteonn waid hurriedly Kates hull Kuritzyn said hurriedly,
"Down to the rallast tanks! When
frie blow them out We are ordered fre, blow them out. We are ordered
not to surrender the boat."
Then, his revolver betwen his teeth. Then, his revolver between his teeth,
he presed the bolt. The lid yielded,
and light and air rushed into the open and light and air rushed into the open-
ing. H .ey, who is there?" shouted Kuritzy.
"Russians, Russians," replied a lazy When Andrey had hit his head against the iron wall of the submarine, two sheaves of greenish sparks flashed
before his eyes. Then everything grew dark and silent. One spark, however,
remained in his eyes and little by little remanied in his eyes and little by little
sproad into an even pale-blue splen-
dour Andrey dour. Andrey contemplated it a long
time with a quiet and profound delight
 caused by the sensation of a foreeign body
within the light ito wol well would it
be if this body dissolved and disat
 and distracted himm. Andrey concen-
trated his mind and with surprise, which
was speedily followed by fear and anguish, he became aware that the foreing
body was himself. Then the mysterious
Solen
 body began to pain in many places.
When he fett the pitching and tossing
of the of the submarine and the noise of the
engine he tried to turn over but could
not. He groaned, and soon plunged into the livinanger, and soand plunged
Meanwise of natural sleep.
 Kuritzyn. He was sipping rum and and
telliny stories about seabatitles and hiss
own deeds. He tried hard not to swas. ger or iis. but hinied hard hots not to swag.
with but litule success
withe the strong. Besides only a few hours be-
fore the commander of the moun-layer
slapped him on the shoulder, mentioned all the devils in addition to both his
own and Kuritynn's inearest relatives
and
fellow.
wound

Ability to Relax

make herselfan who nags herself can make herself more miserable than any her life more of a nightmare than make mistortune could possibly make it. if themselves could learn to be kinder to own lives would be lengthened. and not nly that, but the lives of those with whom they come in close contact would be made f
Magazine.

## 'Percy", A Monkey.

 Percy is a black Brazilian . nonkey, with a smooth white face; bright, beady back eyes, and a little patch ofblack hair on his head that gives him the appearance of a very old weazened up nan with a skull cap. He has . long baby's hands. I purchased Percy in Los Angeles, from a man whose brother captured him
in Brazil, and brought him all the way in Brazil, and brought him all the way old when I got him. This man was very ruel to Percy and used to beat him unmercifully, trying to tame him, and
I bought him because I hated to see him so abused.
Percy was so wild when I bought him Percy was so wild when I bought him
that we could hardly go near him; but he immediately took up with my cousin who has always been very kind to animals and kissed her all over her cheek, and, lthough he has only seen this lady once in three years, when he did see her
he immediately went to her and loved her in the same- way, and could hardly be back to his window. and one day, while sitting on this lady's shoulder eating a pepperinint, the thought candy too ane hiric as she might like the mint out of his own mouth and popped it into hers, as she opened it to
say something. say shen I receive
Percy always want smellis it all over, and finally chews the stamp, but will not destroy the envelope,
as he seems to know that it is different from other envelopes. Sometimes he times he will take a pencil and mark all over the envelope, when we tell him to He is very intelligent and seems to understand everything one is speaking
about, and if you give him anything he never forgets it and always expects the same thing when he sees you. For in-
stance, one man let him go throug hid pockets and take out something he had brought for him one day, and ever since when this man comes, Percy has to go until he finds something. Another man time he came to see him, hat, now first
he comes, Percy immediately knock Peportu lives in a store where he has an picks out his friends and people. He mind that he dislikes some people very friends, but when anyone whom he dislikes comes in, he makes faces at them and
acts very much like a badly spoiled child. He is not very fond of children, as a
rule, and does rule, and does not seem to notice them
very much, unless they are very nicely
dressed when dressed, when he shows a preference for There is, however, one little boy named
Bobbie who Bobbie who comes to see Pericy, who seems to be an exception to this rule, as
Percy immediately comes down from his cage and wants to run and play with him. Sometimes when things have gone
wrong and Percy is crying, I say "Here wrong and Percy is crying, I say "Here
comes Bobbie": He immediately stops crying and begins to look for Bobbie.
We believe tor We believe the reason he likes Bobbie
better than other little boys is because better than other little boys is because
Bobbie is gentle with him. We had Percy in the window of the
store and crowds of people used to stand store and crowds of people used to stand
outside to watch his antics when he was outside to watch his antics when he was
performing on his trapeze and the louder
they laughed the harder he would perform, seemingly trying to show off still
more.

July 12, 1917
before attempting his mischief. When caught at any bischier ane cries the person who has discovered him, and the only
way to stop his crying is to pretend to whip that person.
hip that person. is very industrious and likes to do what others around him are doing. For instance, if I am sewing, Percy has to
have a needle and thread and piece of cloth and slew too. He pushes the needle
ith the cloth with his hands and pulls Cloth and sew eooth hep hands and pulls
into the eloth with teeth. He likes to try to
it out with his it out with his teth. He likes to try to
mend his playthings when they are mend his playthings when they are
broken and will work hard trying to fix He eats nearly everything that we eat, hut has an especial preference lor grapes, back so that he will not lose any of the
juice. He is also very fond of raw eggs juice. He is also very fond of raw eggs small will hold in one end and suck out the inside without spilling a drop. He can drink from a cup or glass just as a person drinks, and can use a spoon very nicely.
When his master goes away he grieves
for for him and will hardly eat, and the moment he sees his master coming he
says, "Ah-hah," which seems to be an expression of enjoyment.
when he wants his bis breakfast, and savs "Ah-hah, ah-hah," and when his master says ${ }^{\text {jon }}$ you must say, it three times,",
he does say, "Ah-hah, ah-hah, ah-hahh," emphasizing the last one ery strongly.
When bath time comes we give Percy pan of water and he gets sing his the for a wash-rag., He washes his feet like a person, washing between each toe
very carefully, then atiter he has dried litimesif he holds. out his reet to his master
to have his toe-nails manicured. When Percy gets sleepy he wraps him-
self up in his little blanket and curls up self up in his furry ball and goes to sleep.
into a little for
He sued to have a white rat for a pet and he always wanted it when he got
and slecpy. He would hold and rock and love
that rat. just like a mother with her
laty, then curl up with it tin his arms for the night. When his rat died one day
he grieved for it and would not be com-
forlcd for I have been offered large sums of
noney for Percy, but we have become so at tached to him that it would seem a almost
like seling one of the fanily and we would
not licve that the little monkey would very
soon grieve himself to death if he were The cute things. that he has done would
fill a book, but I feel that this will ive voll a fair idea of his habits and in
telligence.-Our Dumb Animals.

Health as an aid to Beauty
Food is a double-edged sword, con-
ducive of good when properly used but
deillting in harm when abused. It is not sultitg in inarm when abused. It is not
inged purely for the purpose of giving
its lila tesure. The The important function of
food is to supply substances necessary to lood is to supply substances necessary to
the body so that it may maintain its le, healthy, you should eat enough of each
kind of food o exactly supply the daily kind of food to exactly supply the daily
requirements of the body. In the normal person over-eating, as well as semistarva-
tion, produces harmful effects. Select every article of food with care.
Food should be absolutely fresh or as tresh as it is possible for it to be. The
fresher the food, the safer and healthier
will it be Stale
Stale or damased foods ofter cape detection and manage to find their household. Every portion of food served should be
first well prepared. This refers to the moking, baking, boiling, or broiling of the food so it can be easily digested and
alborbed by the system. If the food is incompletely prepared or overdone, per-
haps burned to a crispy hardness, even haps burned to a crispy hardness, even
the most resistant stomach will give vent to a twinge of pain from the insult offered
10 it. Meats that are cooked too long Ose their flavor and become less digestible. If they are burned, there are formed sublody with which they come in contact.
On thi other hand the longer most vegeOn the other hand, the longer most vege-
tables are cooked the more digestible they become. Prepare the food so that it looks
good. The appearance of food will often arouse a desire for eating where the ap-
petite is indifferent. Foods should be
tastily as well as tastefully prepared
This does not mean that ind ind ord
Stimulate the taste, foods should be loade
 digestion. The food should be varied. Rather than large portions of a very few
kinds of food there should be smaller portions of a larger number of dishes: nothing becomes more loathsome nor
more unappetizing than the constant repetition of the same articles of food. it is chew wedl every bit of food. The more overburdened stomach have to perform
Food cannot be well chewed unless the Food cannot be well chewed unless the
teeth are in good condition. Sound teeth teeth are in good condition. Sound teeth
are a valuable asset in the protection of
health
An agreeable disposition is a valuable aid in the enjoyment of a meal. A mea
that is well enjoyed is well digested since enjoyment encourages the appetite. Depressing emotions markedly reduce the appetite. The sad, the sorrowful, the
melancholic are thin-faced and hungry melancholic are thin-faced and hungry
looking from neglect of eating due to an absent appetite. Anger also is an appetite
destroyer. destroyer. Newspaper and magazine
reading during a meal may be a time reading during a meal may be a time
saving habit, but it is detrimental to the proper digestion of the food.
Foods have a two-fold function to perform. They supply energy in the forn
of body heat and motion, and they repai body tissues that have been destroyed during the process of motion or heat pro
duction. A diet must contain foods that duction. A diet must contain foods that producing foods arè the sweet foods, such as sugar, honey, molasses; starchy foods, such as bread, potatoes, peas, and Lima
beans; and also fats and oils. Material for new tissue is furnished by meat and
many of the vegetables many of the vegetables. There is re-
quired ten times as much food for energy quired iequired for tissue-building. Hence
as is rester
meat should form less than one-tenth of meat should form less than one-tenth of
me diet.

Avoid overeating. Overeating, asid from the interference with personal ap
pearance, is wasteful and harmful. The amount of food necessary for a person
depends upon the amount of active energy consuming work performed by that per year-cold, wintry days requiring more
fuel to keep the body warm. Eat enough amount that you eat is a matter of habit and like other habits can be regulated. Those who exercise, or who do a moder-
ate amount of muscular work, require more meat than those of more sedentary habits. Too much meat causes an in-
crease of the blood-pressure. In addition to this, when used in unnecessarily arg
amounts it also produces substances that amounts it also produces substances crate
irritate the liver and kidneys and create
disturbances in these places. Many peo disturbances in these places. Many ped
ple eat as much as a pound of meat daily and suffer from the consequences of this
oversupply in the form of various ailments. Whenever this amount has been reduced to one-third, the ailments have disap-
peared. Meat equivalent to one-half pound daily is ample for the man who does a moderate amount of muscular
work. A growing boy of sixteen years or more of age requires an equivalen
amount, while a girl or woman will need about six ounces of meat each day. Meats-and by meats are meant the their digestibility are beef, mutton, lamb veal, bacon and pork. Meat should b eaten only once a day at the heavies The green vegetables can, to a slight
extent, take the place of meat in replacing destroyed tissue. When properly prepared, they supply other substance
not found in meat, for the use of specia parts of the body. The green vegetable add palatability to the food. They in
clude cabbage, cauliflower, spinach, let tuce, celery, cucumbers, asparagus,
rhubarb, squash, and onions. To this list may be added others, usually not considered as green vegetables. These are
tomatoes, turnips, beets, parsnips and tomatoes, turnips, beets, parsnips and
radishes. The most indigestible are cabbage and cucumbers. Eat daily at least
two different vegetables in this list Potatoes, peas, and Lima beans, on ac
count of their starch, are classed separate ${ }^{l y}$. The amount of fats and oily substances, starchy foods and sugar to be eate body is
depends on how much work the depled upon to do. Fats are Iepresented by butter, by the fat of pork, ham and bacon
by cocoa, chocolate, by the cream in milk,

## Canadian National Exhibition

August 25 th-Toronto-Sept. Ioth.
The annual world's fair on a more than usually progressive scale Mobilization of national resources. Men, food and equipment.
Immense exhibit of tractors and other farm labor-saving devices
Judging competitions for farmers' sons; new farm crop competitions and extended classifications in all departments
Brimming over with new recreational and other features.
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Are you striving to do "your milk for the babies and better milk for the babies of Canada
who will one day take their Who will one day take their
in the affairs of the world?
If you are, we have something
which will interest you. A millk paill which does not give the millk that woody or tinny taste. BeIndurated Fibreware


The ware which does not transmit taste-is easily cleaned-light
to handle and of wearing qualities unsurpassable.
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Butter Tubs, Milk Pails, Milk Pans, etc.
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FARM AND FARM PROPERTY There will be offered for sale by public auction, at
the premises on Wednesday, 18th day of July, 191?



 tock, implements, etc. will be sold. \& McLachin
For particulars apply to Lock
Lot

 LINSEED OLL CAKE "Maplithaf"


## Don't Dig Post Holes

 Vse Standard Steel Tube FencePosts and Free Fence Hooks.
Standard Steel Tube \& Fence Co., Limited
and by oils such as are obtained frem or are py osent in in olives and the nutse. Not
more than two ounces of butter a day more than two ounces of butter aday
should be used by one person. Four should be used by one perssor.
ounces of pork or six ounces of ham or
bacon are sufficient for the daily anlow ounces of pork or
bacon are suftie
ance of a person.
Starchy foods are the most commonly used. Potatoes, peas, beans, the cereals,
such as rice, farina, and oatmeal, and the flours, particularly, wheat four, are all
rich in starch. part of the daily diet and the equivalent of one large potato can be eaten. Starchy
food for breakfast may be supplied by a dish of cereal with cream, or troe egress
with a roll or toast and butter. Buck with a roll or toast and butter. Byck-
wheat or rriddle cakes and syrup may be
substituted on another morning The substituted on another morning. The
eating of bread is very often orertone.
One of the best breads is made from Bran eating of bread is very often overaone.
One of the ebest breads is sade from Bran
four and molasses. Sugar is mostly nsed with confee or inses.sserts. The equivalent
of three tablespoonfuls each day ibs all that is necessary.
Eggs other than hard boiled are readily digestible, and when soft many as the body needs. Milk is anothy as standard, useful, and highty mutri-
tious fond Two or three classes daily tious food. Two or three glasses daily
are sufficient. Chese is also a very nourishing food
Cher the amount of nourishment that and fives, is probably the most economical
it
from the cost standpoint. Trom the cost standpoint.
The use of coffee and
The use of coffee and tea is apt to be
Habitual coffee and tea-
overdone.
 digestion. They also belong to the class with the disturbed nerees the erritable,
restless and sleepless. No harm wire-
sult from drinking water during meals, restless and sleepless. No harm wim re-
sult from drink wing wat during meas,
providing it is not ice cold nor the amount sporiding it is not ice cold nor the amount
proo great. The amount will depend on
toe the too great. The amount will depend on
the rinness or saltiness of the food eaten.
Avoid too much spice, especially musterd, the arid too much spice, especially mustard,
too much salt and vinegar
 etards digestion and if continued regul
arly results in an inflammation not only The best time for the heaviest mead is a the end of the day when the day's work
is finished. Drowsiness after such a meal The enh of Drowsiness after such a meal
is nished.
is unusual, since the blood-supply of
 dim expense olood to the brain produces
dieepiness. The fallacy of a twentysleepiness. The fallacy of a twiection after a mieal was prob
minute wall
the invention of a mishief-maker. minute invention of a mischief-maker, A
twenty-minute nap would be wiser, ethen twenty-minute nap would be wisert then
could the digestion proceed undistrubed. Irregularity of meal a and dining late at
Iight, like all other irregularities in living spoductive of irregular health.
The following three menus for the thre The following three menus for the tetre
daily meals fulfil all the requirements for ane
he needs of the body. They are suit-
ble the average woman busy at
 Breakrast.-Fruit; choice of any of the
blowing-two eggs with or without ham
 akes with syrup; also a roll or toast wit
butter, weak coffee or one glass of mill:


## Paris green <br> The Season for Potato Bugs is Her

 ARE YOU PREPARED?

 Cother are silla few toi


United Farmers Co-operative Co., Ltd.

Toronto, Ontario

## 




| $\begin{array}{l}\text { name of local dealer. } \\ \text { The Pollock Mig. Conts wanted. Ltd., Kitchener, Ont }\end{array}$ |
| :--- |

The Dollar Chain


 Grace," 81 ; Mr. John Ingram, Mani-
towaning, $\$ 2 ;$ "Fanny D.," R. 5, BrantTotal amount for Byron Hospital to date, $\$ 504.35$.
Amount previously , acknow!

Total te July $6 \ldots \quad \underset{\$ 4,760.90}{ }$
An Appeal From France. An urgent call is being sent out for
funds for French hospitals. Collection
day is Tuly day is July 14. The following extract
from a letter sent out from Red Cross headquarters is self explanatory:
"Brave, courageous France is again need, and though she makes no appeal on her own behalf, she is brave enough to
do so on behalf of her wounded soldiers. This is the situation as summed up by one
writer. writer: Supplies in France, after nearly
three years of war, are almost exhausted. three years of war, are almost exhausted.
"Just one concrete case, though many might be given. trying to support their wounded on thirty-
five cents a day, per man. In peace this would be inadequate, with in peace this is pitiable. Coal is, fifty dollars a ton, nurse says bathetically: 'Could you send
food to our wounded? food to our wounded? We have 175
beds, many of the men coming direct from the Front-and we coming dire so poor!'
"The Executive Commite "The Executive Committee of the
Canadian Red Cross Society has received an urgent appeal from the London Com-
mittee of the French Red Cross to part in an Empire-wide appeal for assistof the French nation, and also their "This appeal has been endorsed and
commended by our Canadian Red Cross Society, and the fourteenth of July has
been chosen as a fitting time for France's "He gives $t$ wice who gives quickly."

Geo Amos and Sons, Moffat, Ont.
write us that since they have prent the excellent young Shorthorn bull,
Newton Grand Champion (imp), and
have Beaumont Ber at large have declared one which of breeders
bulls in the country best sale, among other they will offer for
known sire known sire, Loyal Scot (imp.) He has
proved himself a wonderful bull and has
sired proved himself a wonderful bull and has
sired many prize winners at the large
shows. They will also spare severl shows. They will also spare several
young bulls and females. See the ad
vertisement and write Messrs. Amos fo
particulars.

July 12, 1917


## Better Trees-

 More Fruit Plant your trees with C.X. L. Stumping Powder-theywill grow faster, crop earlier,
behealthier and producemore profito. C.X.L.

Stumpinǵ Powder



 with Dynamite". Limited

Six-Year-01d Apple Trees

Spade Planted


MAIL CONTRACT




 oftices, and at the office of the Post Office Inspec-
tor, IOndon.


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[^0]When writing mention "Adrocate"

THE FARMER'S ADVOCATE.
Questions and Answers.




 | yeterinary or legal enquiries, $\begin{array}{l}\text { si.00 } \\ \text { enclosed must be be }\end{array}$ |
| :--- | Miscellaneous

How to Make Butter and Cheese Will you please inform me of the best
method of making butter and cheese? Ans.-This is one of the impossible
questions we sometimes et at this
 buttermaking and good cheese making
would be impossible in the answer to one question. We direct the attention
of our subscriber to the Dairy DDepartment of this paper which carries from time
to time detailed articles in connection to time detailed attices
with both subjects. him a start we may say that milk should
be produced under sanitary conditions. Everything should be kept clean and the milk should be cooled rapidily to below
70 degrees $F$.and preferably to 50 or
60 degrees if set in 60 degress if set in pans or cans to cream
If a seearator is used of course the milk
should be st should be strained and separated righ
from the cow. Keep all utensils clean Irom the cow. Keep and utensils cleanl.
Frequent scalding is necessary. If milk
is set in shallow pans to cream keep it
it cool and free from drafts at a temperature
of 50 to 60 degrees for 24 to 48 , If set in deep cans submerge or surround with cold water preferably cooled by ice.
Remove the cream, which comes to the Remove the cream, which comes to the
top, before the milk sours. Souring is not likely to occur inside 36 hours where ice
used. Generally 24 to 36 hours are required for cream to separate. Where
separator is used skim around a 28 to 30 separator is ised skim around a 22 to
per cent. ream. Cream should be soured
per per cent. cream. Col the cream from
before chuning. Cool the
the separator down to 50 to 60 degrees. Keep it sweet and cold until sufficient
is collected for a churning which should is collected for a twice a week. Do not
not be less than
 pult avoidable. When the cream commences
to thicken bring the churning tempera to thicken bring the churning temperaa
ture of 58 to 65 degrees if gravity cream in summer, or 65 to 72 degrees in winter.
Rich separator cream may be churned at 42 to 52 degrees. Strain cream into churn
after it has been scalded. Add sufficient alter
coloring to to give a "June grass" tint.
Do not pill barrel churn more than onethird to one-half full. Turn at a speed of 50 to 70 revolutions per minute de late two or three times to allow escape of gas. Add a dipper of water when
butter is size of grains of clover seed-cold water in summer and water the tempera-
ture of the cream in winter. Stop churn ing, when the butter is the size of wheat grains and drain off the buttermixh
throuyh a strainer. Add about as much water to the butter as there was cream having the temperature 45 to 50 degrees
in summer or 50 to 60 degrees in summer or 50 to 60 degrees in winter
and wash. Usually one washing is suffiane washilow salt to stand in the butter in
cient. All cient. Alow for an hour. One-half ounce of salt to the pound of butter is enough
for alood butter
The butter may he for good butter. $\begin{aligned} & \text { The butter may be } \\ & \text { worked once or }\end{aligned}$ twice always with a wownward pressure never with a scraping or slididng motion. It has been sufficiently
worked when even in color, close in worked when even in color, close in
body and free from excess water. It body a be free
should be printed and wrapped neatly or packed in a clean crock or paraftine-
lined wooden package. lined wooden packate.
The same precautions as to cleanliness apply in cheesemaking. We cannot apply in fully here Canadian Cheddar
describe
chesemaking. Preferably it should be done at a regular cheese factory. An of curd produced by ripening the milk. Cheese coloring is added at the rate or one to one and one-rat ounces pee
1,000 lbs, of milk where colored cheese is desired. Rennet is then added. This varies in strength and acts most quickly at 98 degrees ${ }^{\text {a }}$ se cold
water to dilute the rennet and for best water to
results use a temperature of 86 degrees. Do not use less than 3 ouncesper thousand pounds of milk, and generamy not moren
than 5 ounces. Dilute it with pure, clean than 5 ouncest into the milk vigorously.
water and stir into whe curd is ready to cut when the forefinger inserted therein will break it
clean. $\begin{aligned} & \text { Cut into cubes with a special }\end{aligned}$


Now THREE Flavours!
Get a package of the new "Jurcy Fruit"See what a joyous, lasting flavour has been crowded in to give you a great, BIG 5 cent package of refreshment! 0 Pritates seal made in canada

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- THE FLAVOUR LASTS -
"Ghew it after every meall"

 Toronto winner. Present offering-one roan Orange Blossom bull, 12 months old (a show animal)
also younger buils and several choce ow and heifers.
Geo. D. Pletcher, Erin, Ont., R. R. 1, Erin Sta., C.P.R., L.-D. Phone.

It is positively the only washer of horsepower engine operates on gasoline, kerosene or alcohol-about five cents worth does the wash.

This washer will not injure the daintiest linens, or the most delicate laces-and it will handle heavier blan-kets-doing the work twice as well and in less than half the time required by the old-fashioned washer or backbreaking, knuckle-skinning wash board and tub.

We also have in stock
'Maytag' Electric
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"Maytag" Hand Washers LSO THE
"Maytag' One H.-P. Engine
Each machine warranted
FOR THREE YEARS
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paraself
Lhe of WASHERS, CHURNS, BUTTER.
WORKERS, FOOD CUTTERS, GAS EN. GINES, etc. Write for Catalogue.
MAXWELLS LIMITED, St. Mary's, ont.

## VIKING <br> Cream Separators of Quality

curd horizontal knife first and then twice
(crosswise and lengthwise) with a perpendicular knife. Agitate by gently stirring after cutting. Steam heat should
be applied to cook the curd and apply be applied to cook the curd and apply increase the temperature from 86 to 98 or 100 degrees. Agitate until up to desired temperature constantly then occasionally to avoid matting. The whey
is then removed from the curd and the latter dipped on a clean cloth spread until the curd has from 40 to 50 per cent moisture. The cheese is then matted
into pieces about 1 foot long and 4 . 6 inches wide and piled three deep at a temperature of 95 degrees until
they become meaty. The curd is then run through a mill which cuts it into
pieces of uniform size. When it feels silky and mellow it is salted. The rate of salting varies from $11 / 2$ to 3 lbs . pe
100 lbs . curd or per $1,000 \mathrm{lbs}$. milk In about 20 minutes the curd may be put into hoops, bandaged, capped and
pressed. They must then be ripened in a suitable room at a temperature of ¿8 to 40 degrees if possible.

Questions and Answers Miscellaneous.

Joint III-Castration.

1. Up to what age are foals subject to be infected with joint ill?
2. I had a four-year-old Clyde stallion castrated about six weeks ago and he is still as keen and noisy as ever. Is he likely to continue this way, or is there anything could be done as I would like to be able to put him out to grass with other horses?
Ans. 1.-Some difference Subscriber exists as to the nature of this disease but the best viewpoint seems to be that the germs of the disease gain entrance
to the foal shortly after it is dropped, and that danger is practically nil after the navel cord has dried up and healed
Symptoms of the disease generally appear from a few hours to a few days after
birth. In rare cases the die birth. In rare cases the disease develops
after a few weeks. It is believed that germs enter the foal through the the surface of the umbilical cord. Treat this with a strong antiseptic such as
a ten per cent. solution of carbolic acids formalin or one of the coal-tar products grains to a pint of water. One of these should be freely applied immediately after birth and four or five times daily age often requires several at a matur quiet down. He will probably be all feed too heavily and give plenty of wo

Hens Die From Improper Feeding What is the cause of hens dying in at and ato appearances perfectly healthy but frequently in the morning we find one dead under the roost. After he flesh around it looking sore with discharge sticking to the feathers otice any of them scours" We nev almost altogether. $R$ R. J. M.
Ans.-It is evident from the explater tion given that the hens in question
suffer from lack of exercise and green leed. We would infer fromise and green
stated that the hens are confined
libers likerally fed. Allow them as large a ru
as possible and dig up the soil so the

 of green feed in the formo of plent
dandelions, clover or, in fact, almos tares are much relished and appeat
to have considerable medicinal effed
When statting treatel 1s to 24 hours and then sive a ligh
mash with sufficient Epom salts in it
to purge them mildly. Thy

before them so they can cat it at will



Back Up The Boys Who Are Fighting For You!

Work and save as earnestly and wholeheartedly as they are fighting in France !

Work at something that helps directly toward winning the war! Save, and lend your savings to the nation, to finance the struggle and furnish everything needed to the men in he firing line

For every $\$ 21.50$ you lend the nation now, you will get back $\$ 25$ at the end of three years-an Interest return of over $5 \%$. Certificates are issued in denominations of $\$ 25, \$ 50$ and $\$ 100$ and may be purchased at $\$ 21.50$, $\$ 43$ and $\$ 86$ respectively, at any Bank or Money Order Post Office.
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C. W. PETERSON,

Secretary.


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July 12, 1917
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 on the Horse FREEI


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BALMEDIE ABERDEEN-ANGUS Cist high-class Angus bull and breed the cham-


THE FARMER'S ADVOCATE
Questions and Answers
Miscellaneous
Growing Onion Sets And Seeds. 1. Give details of growing sets and
2. What varieties of onions give best results for marketing? P. R. Ans.-1. The growing of sets require growing of either domestic or pickling groming of either domestic or picking the same as for a crop of the tatter Clayey soil should be avoided, but the ordinary soil which is considered good ordinary soil which is considered good
for onion production does very well for sets. The drills are made about a foot apart, and the ordinary seed sowers ca be used to distribute the seed. The row
is sown about two inches in width, and is sown about two inches if width, and
as much as twenty to fifty pounds of seed per acre is used. In the vicinit of Chicago, which is the largest set
producing section in America, the row are one foot apart, and from, 60 to 85
biss. of seed are used per acre. Where it is only desirable to produce a small patch, the seed can be sown with a small
tin can with a diameter of about two tin can with a diameter of about two
inches. Punch a number of small holes
in the boutom slighty seed, but not large enough to permit two seeds to escape at once. Fill the can
with seed and shake it lightly along the open drill, cover the seed in the drill
with fine soil from one-half to one incl with depth sothe light covering is recommended for medium heavy soil, and the
deep covering for light soil. One ounce will deep eabout forty feet of drill. The
sow
varieties used for growing sets are Yellow Fariat Danvers, Yellow Dutch or Stras-
Flarg, Australian Brown, White Portugal or Silverskin, Extra Early Red, and Red
Weathersfield. The cultivation and weeding are practically the same as
for market onions. In Huron County, near Hensall, the harvesting methods are somewhat different from those employed elsewhere. Three rows are pulfer and placed in a window and to the in the sun
will rub off when going through the cleaning machine. For winter storage they are placed in trays and stored in much
the same manner as are domestic o inckning in seed production the bulbs should be selected very carefully in regard to shape, color and size. Goor rich
or sandy loam is a desirable type of soil The bulbs are planted in rows three feet apart, This admits of horse cultivation,
row The
Absts of bubs are used in About 12 bushel planting an acre. The crop varies according to season, from one pound to upwards of four pounds ons In gathering
bushel of bulbs planted. In bus seed, the field is often gone over four
the or five times, cutting off those that are
ready. About two inches of the stock is removed with the seed ball. They are generally gathered in bags or sacks and
are taken to the seed-drying house, where they are spread out on shelves. A free
circulation of air is permitted in order circulation the drying of the seed. Aftee
to aid in the seed is the balls are thoroughly tick, It is the
beaten out with a stick. geathered up and run through a mill
to clean it and blow off the light stuff. After it is cleaned it is placed in barrel all the good seed is entirely immersed the light and poor seed floats to the top, and is discarded. The good seed is then
thoroughly dried as quickly as possible; if it remains damp for any length of 2. Southport Yellow Globe, South port Red Globe, Red Wetherstield
Danvers Yellow Globe. There is a long Dant of usful varieties but these give
listod results when grown from seed. "The 'orn of the 'unter is 'eard on
the 'ill," sang the little boy at the Ragged School' treat. But somehow his version, of that ine in en the of the old squire,
jarred on the don't you put a few more aitches in yout
song?" "Garn!" advised the little man, politely
"Don't yer know there ain't no ' h ' 'in Don't yer know wes up ter G. 3 H. P. \$115.

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 BUMLT-MN MAGNETO 6 H. P. $\$ 205$.F. O. B. Montreal or Toronto

AF Farrbanks-llorst Qualliy Engine ata popular price, the graitosit Engino value ofltoruL. "More than rated power and a wonder at the prices." Simple-Light Weight-Substantial-Fool-proof Coinstruction-
 SEE THE "Ž" AND YOU"LL BUY IT. Go to the dealer who displays the sign shown above. See the
features that make it the one best engine buy an engine from your dealer you deeal with the local representative of the manufacturer., He stands behind the engine he sells, He's res-
ponsible to you。He's at your service to see that you are satisfied. THE CANADIAN FAIRBANKS-MORSE CO.g LIMITEI St. John, Montreal, Calgary, Toronto, Winnipeg,


Another Wet Season in Prospect PLW You will need Canvas Cover
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Ask for our
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OUR LATEST IMPORTATION OF CLYDESDALES arrived at our barns late in November, A number of them since have been prominent winnerse at both
Guelph and Ottawa. But we have others (both tatilione and marese that were never out, the maiopity
 Clydesdale Horses-Holstein Catte-Yorkhire Hog Post Office-Malton We always have some choice young breeding stock too offer. $\begin{gathered}\text { Nearest Station-Cokoville C. P. R }\end{gathered}$ Bell Telephone HILLSDALE FARM Farm, 3/4 miles east of Otaw B. ROTHWELL

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 THE MANOR STOCK FARM---SHORTHORNS Two young red bulls (June and July), a Wimple and a Julia. Would buy a few females of good familiee
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It is positively the only washer of
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Each machine warranted
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 HOP MALT EXTRACT Made only Yrom pure hops and malt.
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Excellent for Small tins, $\$ 1.00$, largo, $\$ 1.50$ Agents Wanted
Hop Malt Co. $\begin{gathered}\text { Dept. } \\ \text { Beamsville, Ont. }\end{gathered}$

## Be SURE AND ASK FOR THE

 Gilite for Catalogue.
MAXWELLS Limited, St. Mary's, Ont.

## VIKING <br> Cream Separators of Quality

(crosswise and lengthwise) with a pe pendicular knife. Agitate by bently
stirring after cutting. Steam heat should be applied to cook the curd and apply heat slowly, taking one-half hour to
increase the temperature from 86 to 98 or 100 degrees. Agitate until up to casionally to avoid matting. The whey
is then is then removed from the curd and the
latter dipped on a clean cloth spread over a rack in the vat or sink and stirred
until the curd has from 40 to 50 per cent moisture. The cheese is then matted into pieces about 1 foot long and 4 to
6 inches wide and piled three deep
at a temperature of 95 degrees until they become meaty. The curd is then
run through a mill which cuts it into silky and mellow it is salted. The rate of salting varies from $11 / 2$ to 3 lbs . per
100 lbs. curd or per $1,000 \mathrm{lbs}$. milk. put into hoops, bandaged, capped and
pressed. They must then be ripened in a suitable room at a temperature of
$: 8$ to 40 degrees if possible.

Questions and Answers. Miscellaneous.

Joint III-Castration. 1. Up to what age are foals subject be infected with joint ill? castrated about six wear-old Clyde stallion still as keen and noisy as ever. Is he likely to continue this way, or is there anything could be done as I would like to be able to put him out to grass with Ans A Subscriber. Ans. 1.-Some difference of opinion stil
exists as to the nature of this disees but the best viewpoint seems to be that
bue the germs of the disease gain entrance
to the foal shortly after it is dropped, and that danger is practically nill after
the navel cord has dried up and healed Symptoms of the disease generally appear
from a few hours to from a few hours to a few days after
birth. In rare cases the disease develops
after a few after a few weeks. It is believed that the germs enter the foal through the raw
surface of the umbilical cord. Treat
this with a strong this with a strong antiseptic such as
a ten per cent. solution of carbolic acid
formalin or formalin or one of the coal-tar products, grains to a pint of water. sublimate 40
should be freely ane of these
shorlied ine after birth and four or five times daily until the navel opening is entirely healed.
2. A stallion castrated at a mature age often requires several months to
quiet down. He will probably be all
right doll feed too heavily and give plenty of work
or exercise

Hens Die From Improper Feeding. What is the cause of hens dying in
the following manner? The hens are fat and to all appearances perfectly healthy but frequently in the morning
we find one dead under the roost. After we find one dead under the roost. After
they are dead we notice the rectum and
the flesh around it loo lischarge sticking to the theathers a sembling "white scours"" We never
notice any of them sick. We feed wheat
almost altogether almost altogether. sick. We feed wheat
Ans. J. M.
tion given that frem the explana-
the hens in question suffer from lack of exercise and guestion
feed. We would infer rom the symptoms
stated that the hens are confined and


Back Up The Boys Who Are Fighting For You!

Work and save as earnestly and wholeheartedly as they are fighting in France! Work at something that helps directly toward winning the war! Save, and lend your savings to the nation, to finance the struggle and furnish everything needed to the men in the firing line.

For every $\$ 21.50$ you lend the nation now, you will get back $\$ 25$ at the end of three years-an Interest return of over $5 \%$. Certificates are issued in denominations of $\$ 25, \$ 50$ and $\$ 100$ and may be purchased at $\$ 21.50$ $\$ 43$ and $\$ 86$ respectively, at any Bank or Money Order Post Office.

Save for the men who are saving Canada."
The National Service Board of Canada.
R. B. BENNETT,
C. W. PETERSON,

26


July 12, 1917

Gossip.
Dairy Shorthorns In England. The Dairy Shorthorn Association of
Encland has issued its Year Book for England has issued its Year Book for
1917, and its official records of milk 1917, and its official records on mhee
yields are interesting. Two cows have yields are interesting. 13,000 pounds of milk in one
topped
4. ${ }^{\text {on }}$, four have beaten 12,000 "profit"; four have beaten 12,000
pounds; two have got over the 11,000 pounds; two have got over the 11,000
pounds mark; 22 have gone past the pounds mark; 22 have gone past
10,000 pounds line; 45 have done well over 9,000 pounds, and 99 have "licked" the 8,000 pound record. Name of cow. Duchess of Cranford 3rd. $13,7441 / 292$ Primrose 3rd...
Gilmorton Las Gilmorton Lass
Harrington Du Hutton Girl.... Forest Farm 3rd
Lady Thrush 3rd Fair Rosamond......
Dolphinlee Fogathor Dolphinlee Fo
Primrose 3rd Primrose 3rd.
Ewerby Coun Rindlip Dulce.... 4 th.. Waterloo Lily 2 nd Hero Fancy 18th
Border Lady 2nd Waterloo Gift. Rosamond Queen.
Johnby Rose 10th Marchioness
Shard Mary. Bessborough Belle 10 th Royal Daisy 2 n
Sweet Wampoo Leeazow Musical Veracity
Sybil
Stell
toth Sincerity
Li.lac 7th
Melody 13 th Melody 13 th rd. 13,44
$\qquad$
rd................


Place Your Order at Once for an Ideal Green Feed Silo

in follow the erection of an Ideal Green Larger milk profits are sure to follow the erection of ancreases milk Fee about 25 best autho reduces feeding costs 15 to 20 per cent fow abor beef cattle and ilage Orsor your Ideal now, and be prepared to make larger profits from your live stock next winter.

Now is the time to plan for your silo. In selecting it, remember that it is GOOD silage that is most profitable to feed, and that GOOD silage can be pro-
duced only in a GOOD silo. Something that is claimed to be "just as good" at a lower price and it can not produce GOOD silage. A "cheap" silo, or a silo that you can erect from "cheap" material, will prove the most costly you can buy

The few dollars you might save on the first cost by buying such a silo will be lost many times over in the poor quality of the silage, the e ife.
will be put to in keeping the silo in repair, and in its short life.

An Ideal Green Feed Silo will pay for itself in one year, and will last from fiftee thentl preserve your silage perfectly. It is the most profitable silo own, because it returns the biggest profit on the money you invest in it. Don't take a chance. Don't buy any silo until you get all the facts that
Dres prove that you get mere for to-day for our large, illustrated catalogue-or, better still, place your order with a De Laval agent for an Ideal Green Feed Silo. You take no chances in orderin a De Laval agent
an Ideal, because it is used and endorsed by thousands of the most experienced
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There are men that are trying hard to start their neighborhoods
have a suitable bulf er at a moderate price and I PAY THE FREIGH Business established
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half mile from Burlington Junction. Wren

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of such popular strains as Minas, Fames, Miss Ramsdens, Florences, Emilys, etc.
Have still faew younn bulls - thick, mellow fellows, fit for service.
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and young bulls for sale. Thos. J. McCormicls. Rockton, Ont.. Copetown Stn., G. T
SUNNYSIDE AYRSHIRES We have at tresent the strongest lot of young bulls
we ever offered-one by Hobsland M Masterpiece, one Sunnyside Matchess, and the others by ou
rresent herd sire, Sunnyside Masterpiece no. W. Logan, $\begin{aligned} & \text { Lumy } \\ & \text { Howiclk Station, Que }\end{aligned}$ J ERSEYS FOR SALE vearling heifers and heififer calves, sired by imported CIIAS. E. ROGERS, INGERSOLL, ONT. hen writing please mention this paper

Questions and Answers. Miscellaneous. Would $\begin{aligned} & \text { Fall Pasture. } \\ & \text { you recommend sowing }\end{aligned}$
Hungarian or or fall pasture for cows, if not, what would be best to sow?. Subscriber. Ans.-Hungarian or millet might do all right. Some sow rape, but of course
rape would not be suitable for milk
litale the time this reaches you will be getting late to sow millet.

A Modest Sphinx Moth hich I do not know. I would be ver thankful if you would tell me through your columns to what species it belongs. found it on a stump beside a swamp in pasture field. W. A. H. H.
Ans.-The moth was the Modest Aphinx, Marumba Modesta, belonging o the Hawk-moth or Sphingidæ. The
larva of this species feeds hrva of this species feeds on poplar an
cottonwood Can a hired man be forced to put in
holidays if he does not take legal holidays I have 15 days to put in after my year
is in, but I did not have any legal holiday. Can I take all the holidays that ther Ans.-A hired man is entitled to eigh holidays in the year unless other arrange
ments are made. Of course working on these days would not let the man out inless an agreement was made to allow Worms in Land Sown to Turnips While hoeing my turnips I find a great
nany small worms, a great deal like many small worms, a great deal like
he cut worm, they seem to be in the manure in the soil, do you think they ar
likely to destroy my turnips or is ther any way I could prevent them? The seed
was treated with turpentine before planting. Ans.-It is scarcely likely that the
will destroy the turnips you might try the poisoned bran mixture recommended
elsewhere in this issue if they begin to trouble the
that they will.

Collecting Wages.

1. Can a man collect wages if he leaves
n his own account? In the agreement on his own account? In the agreement n my place. He fed his horse before
on
left one night and took 13 lbs. ats with him. I took the oats out of
is buggy and he quit me on the following ay and demands his wages.
2. I have to pay higher wages to anothe man to fill in his time. Can I stop the
extra money out of the first man's
3. Is it right to pay a man as much money for the first month or two and
then for him to leave when the work omes on? I hired him for 8 month and 2 days. If ask a man to do necessary work such as milking or taking cows away and leaves what steps can be taken?
4. Can he collect his wages? E.O. M. Ans.-Questions of wages depend a fogether on agreements. If the man
was hired for a certain lump sum of money for the eight months his money isn't due until the time is in. In any
case both parties to the agreement are called upon to live up to that agreement leave, of course a judge would allow
the farmer who must pay higher wage for a man to take his place something for a man to tifference. A man is supposed to do necessary chores, but not to work
fifteen or sixteen hours a day. If he hired by the month at so much a month
his wages are due each month end and he could collect, but, of course, without be called upon to fulfil his contract. It the agreement was to the effect that
he was only to feed oats while on the farm he had no right to carry any away.
As a general thing the easiest way out As a these difficulties is the best. The
of thesuld likely be little use if forced
man woul


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out of winners, including champions. Both sexes.
W. W. Brownridge, Georgetown, Ont.. R R 3 .
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memths old. Shorthorns, males and females.
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& \text { ble dealers everywhere. }
\end{aligned}
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Keeping Pork in Brine, About two weeks ago I put down some
pork. I boiled $1 / 2 \mathrm{lbs}$. of salt sugar and a little saltpetre to each gallon
of water. The meat was put in this brine mold on it. Will that injure the meat?
If so how can I remedy it?
$\square$ ould be advisable to take the meat out he brine, scald the retainer, and
meat continues to mold we would advise
a straight salt cure. Use 10 lbs . salt and
$\square$ he meat, cover, and poright down to keep
it unde the brine. Scald the container
horoughly.
$\qquad$
Larkin Farm, Queenston, Ont.
FARNHAM OXFORD DOWNS
$\qquad$ ewes. A nice lot of ram and ewe lambs coming on.
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