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If you have a heavy or satisfactory hay crop and buy a silo and make silage, you can sell your hay and feed your cows silage and you will find that, in the first place, your cost for fodder will be 15 to 20 per cent. less than if you fed your cows hay; and in the second place, your milk flow will be a good deal larger.
If, however, you have a light hay crop but have silage to feed your cows, you won't have to buy any hay or sell some of your cows because you haven't enough feed, because you
can feed them silage if you have a silo, and not only will can feed them silage if you have a silo, and not only will they give a good deal more milk than they would on a hay ration, but you will find that they will come out in good deal better shape in the spring
Another big advantage in raising and feeding silage is that you can keep more cows on the same number of acres, and derive a larger profit from them.
Furthermore, corn for silage is the surest and most dependable crop that the farmer can raise. Less affected by weather conditions than any other crop, it doesn't make much difference whether the weather is wet or dry when much difference whethe
you come to harvest it.

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is so well known and so well liked by Canadian dairymen that we do not feel it is necessary to say very much about it. The fact that it is a product of the De Laval factory is in itself an assurance that the material and workmanship are high-grade in every particular, and if you will talk to any one in your neighborhood who has an Ideal Silo, or will look over the construction of some Ideal Silo put up by one of your neighbors, you will surely appreciate the excellence of its construction and the quality of the material from which it is built.
If you are still hesitating whether or not to purchase a silo this year, please keep in mind that if you wait much longer you may have a good deal of trouble in getting delivery in time, because we have had a great rush of silo orders this summer, and those who get their orders in late may have to wait.
There is probably a De Laval agent in your town who will be glad to quote you prices, terms, etc. If not, an inquiry sent to the nearest De Laval office will receive prompt attention.

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Vcl. XLIX.

## EDITORIAL

A great many people are looking for a job with the work left out.

Uncle Bije says the trouble, with a lot of folks is that they do not like to sweat.

Recent army worm outbreaks again emphasize the necessity for farmers to stand together the necessity

The hay crop was light, but in most sections the weather was dry and we never saw better kay made in so short a time.

Never did we see better prospects for mangels. This crop seems to enjoy heat, and stands drouth well if frequently cultivated.
Unless all signs fail cattle for beefing purposes will be scarcer this fall than for many years, and the finished beef next spring will be correspondingly hard to pick up.

From experience last year and far some years previously it would seem that early spring sowing of fall wheat produced the best yields. Now is the time to be getting the land ready.

If the government has a few millions of dollars lying idle, as in prospect, why not invest lars lying ide, as in prospect, why not invest
them in schools for industrial and technical education, including agriculture, rather than in institutions for the promotion of militarism?
The deep significance of a hundred years of peace between Great Britain and the United States is long in reaching the consciousness of some of our military statesmen. One might suppose they were preparing for a hundred years of war.
A hostile army has invaded several portions of our country in the form of the army worm. Such as these are the real enemies of the land, and all the military paraphernalia is helpless to
drive out the invaders. Knowledge and reason drive out the invader
must be appealed to.
Sorme of the old meadows produced a very light crop this year, which was mosty Canadian blue grass. These are not likely to be good fields of hay next year if left, but if plowed right
away and the top kept well cultivated they may be turned into after-haying summer-fallows to be turned into
good advantage.
The recent serious outbreaks of the army worm in several sections of Ontario only serve to eye on all parts of the farm. And watching is not all that is necessary; quick action is imperative. It is the man who sees a thing and does
it that succeeds. it that succeeds.
When one sees the hayloader loading hay and the fork or slings unloading it, and turns in another direction and sees the self-binder cutting
and tying the crop and carrying it into rows, and looking in another direction beholds the tworow corn cultivator cleaning the corn by strokes
in both directions, made possible by the corn being planted in rows each way by the check-row planter, he is forced to conclude the farmer's upfriends in these days of few hired men.

LONDON, ONTARIO, JULY 30, 1914
No. 1140

## Corn, The Crop of Crops

In travelling over the country from year to year many changes are noted in crops and crop-
ping. Perhaps most. conspicuous of all to the ping. Perhaps most. conspicuous of all to the
casual observer is the rapid increase in the acreage of corn and mangels, and the gradual, almost rapid, decrease in Swede turnips. Corn is now the main feed crop on hundreds of farms in Ontario where the Swede turnip formerly was relied upon to bring the cattle through the winter in a healthy and thriving state, and the mangel crop is fast crowding the remnant of the turnip acre age off the farms. It is no uncommon oc currence to see fields of anywhere from six to fifteen acres of corn with a stwip of from two to five acres of mangels at one side, where, under former conditions, the large acreage would have been turnips and Swedes with only a small strip, possibly an acre and a half, mangels. There are two good reasons for the change. Corn has demonstrated that it is the crop that produces feed in greatest abundance and not only in largest quantity but at less expense than roots, therefore, the far-seeing farmer has erected a silo and grows corn. He gets good feed, plenty of it, and his labor bill for his hoed crop is cut in half. Why shouldn't he grow corn? Mangels, as a general thing, outyield turnips, are sown and hoed earlier and are generally preferred for feeding milk cows and young stock, and so, too, they have rightfully shoved the good old turnip crop down into a smaller corner. On your next trip over a long or short distance just recall the crops of a few year's ago and compare them with those of to-day, and note how the live-stock farmer is keeping abreast of the times and changed conditions which demand changes on the

## The Six-o'Clock Man.

Did you ever notice that the man who sits on the fence for ten minutes waiting for the hands on his watch to get around to seven o'clock beOore he starts the day's work on the farm', and the man who would unhitch his horses at the far end of the field when the bell or whistie announced the hour of six p.m., are usually the poorest men in the field between the hours of seven and twelve and one and six? No man who is taking the interest he should in his farmer employer's work is so particular to a few minutes morning or evening. Do not think for one moment we are advocating long days. Not at all. As a general practice they are a detriment to progress; but at this season of the year conditions may arise which make it necessary for the best interests of the farmer and his men in getting the crop harvested to work a few days a little early or an hour late. Only a few such days may or should arise on a well-managed farm. It is not often necessary to draw in longer than ten hours, and reaping is a short work on most Eastern farms, but it may be that a certain field is in fine condition to go in the harn, and in fact may be all harvested but a load or two at six o'clock. The wind may be
blowing damp from the southeast with an overblowing damp from the southeast with an over-
cast sky threatening a heavy rainfail. The six-o'clock-under-all-conditions man lays down his fork and quits. Unless other willing workers are plentiful the remaining two loads gets soaked, possibly partially spoiled. Here is where a good system which should show in some cases a little
more elasticity is overstretched. On the other more elasticity is overstretched. On the other
work from daylight until dark. Just be reasonable. Quit at six as a general rule, but do not object to
mand it.

## Too Much Farm and Too Few Men.

You have read time and again that the labor question and the falling off in rural population is fast becoming a very serious matter in this country, and yet while you have had help within your family or were able to hire efficient labor to do the work, the real serious side did not present itself. Nevertheless it is serious, far moro so than many believe and unless a remedy is found agriculture mast suffer, and if agriculture suffers in a country like this everybody feels the result. It is simply a question of too much farm with too little help on a large percentage of Ontario farms to-day. One-hundred-acre farma are being operated by the owner with the help perhaps of a little boy and an odd day's work. Two hundred and two-hundred-and-fity-acre farme are only half worked in many casem by the are only half worked in many cases by for a fow owner with one hired man engaged for a fiw
months in the summer. This cannot go on withmonths in the summer. This cannot go on with-
out injuring the yearly returns. True, labor-satout injuring the yearly returns. True, labor-savget over the scarcity of hired help, but they canget over the sc
not do it ail.

There seems to be two wrongs, and it is an old saying that two wrongs never make a right. First, the hiring system on many farms is wrong and second, the men available are not always the kind that the farmer could put up with for long. There are many good and worthy men to be hired, but not nearly enough to go around, and of the few of the out-of-work class in the cities who do drift out to the farms, too many would rather be summer boarders and walking bosses than farm laborers getting a fair wage with good bed and board. The man who has to be coaxed to go on a farm or driven to it by sheer privation and want is not often a first-class man. He wants about five big meals a day, a long sleep, a short working day, and all the nicest jobs on the ranch. while the boss does the dirty and heavy work. This class of man is no use to the farming community. The problem is to get the good men to do farm work, and here is where the farmer must do his part. Give yearly employment and plan operations oo thet the hired ploymen , and the hred man is a profitable investment winter and summer, and besides provide a comfortable little cottage for the man, and encourage him in his work on the farm. Do this and it will induce good men to take up farm work, and nothing but the good men are profitable. Let the soup kitchens feed the loafers, and the farm provide steady employment for the induŝ́trious. More men must be had or smaller farms must result.

## Big Tasks for Big Men.

It has been computed tkat by the end of the year over 200,000 men in Canada will be needing employment, with the grim outlook before them of starvation or deportation to the overcrowded and hópeless lands from whence 'they came. This, if a correct forecast, is surely an astounding condition of affairs. The country has been spending vast sums in the development of a system to promote immigration of a supposedly good class of people. We have untold millions of acres of fertile land, some timbered, others prairie needing settlement. Thousands upon thousands of acres of farm land in old Can-

The Farmer's Advocate

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John WELD, Manager.
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THE WILLAM WELD COMPANY (Lict
ada is being laìd down to grass, and is not pro ducing one-half the crops and products of which it is capable for lack of help. The world and the cities in particular are clamoring for food which the farms and orchards and gardens might produce if only they were populated with willing hands. Are our governments, Federal and Provincial, going to confess their incapability
grapple with such a problem'? Have they no alternative to place before these people in the vast land of hope and opportunity, but to weakly dump them overboard? If confirmed paupers, criminals or diseased, that their own lands should have cared for, the case is different, but for others there is land to clear and work, roads be established under Canadian conditions. Here are great tasks ready to hand for the 20th century statesman.

## Nature's Diary

$\qquad$ more destructive than the locusts. Year by year vegetation, and in some localities they increase plague. It is true that we in Canada have never been visited by the immense swarms of Rocky Mountain Locusts which have on several oc
casions devastated Kansas and other Western casions devastated Kansas and other Western
States, but we have had in many localities
'. Grassher "Grasshopper Years," the memory of which is
far from pleasant. The places in which these
plagues have occurred are not the well-tilled plagues have occurred are not the well-tilled agri-
cultural districts, but localities in which there is some farm land but a large amount of "wast
land. This is so because the main breeding grounds of the Locusts are in dry, waste land consequently if land is ploughed they are de-Red-legged Locusts increased so tremendously in ate all the garden stuff, stripped the leaves off the bushes and low trees, and even chewed the
wood of the fences, barns and other unpainted
surfaces. In an attempt to provide some fod surfaces. In an attempt to provide some fod-
der for winter some sowed coan and any of the
grains which were left on the surface were eaten into until they were shaped like an old molar was practically over and it made fair growth before late fall. Many who were unable to import baled hay lost
from starvation
Speaking of the Rocky Mountain Locust, Kellog says: "One day in early summer of 1879 the ing hard with Kansas might have been seen stap towards the sun. By persistent looking one could see high in the air a thin, silvery, white shifting said, "Its them again, all right." Now this meant, if it were true, that far from being all right, it was about as wrong as it could be for Kansas. "Them" meant the hateful Rocky Mountain Locusts, and the Locusts meant deers. In 1866 and again in 1874 and 1875 the locusts had come; first a thin, silvery cloud high overhead-sunlight glancing from millions' of thin membraneous wings-and then a swarming, crawl ing, leaping, and ever and always busily eating hond. And the old residents spoke the truth in that summer of 1876. It was "them," uncounted hosts of them,

The Rocky Mountain Locust has its permanent breeding grounds on the plains and plateaus umbia, at an altitude of from 2,000 to 10,000 eet above the sta level. But in those days plains, and surches and farm wheat were no at hand to feed the millions of young which hatched each spring. So, after exhausting the
scanty wild herbage of th eir breeding grounds scanty wild herbage of their breeding grounds locusts would rise high in the air until they were caught by the great wind-streams bearing south-east, and with parchment-like wings extheir fullest, would be borne for a thousand miles A the rich grain fields of the Mississippi Valley.
As far east as the middle of Iowa and Missouri and south to Texas these great swarms would spread, and once settled to ground and started to their chief business, that of eating, not a green thing escaped. First the grains and grasses; then the vegetabies and bushes; then the leaves and fresh twigs and bark of trees! A
steady munching was audible over the doomed land! And this munching was the devouring of dollars. Fifty millions of dollars were eaten in the seasons of 1874-6 alone.
Locust invasion of the Mississippi Vountain 1876, and there will probably never be since The Locust is being fed and fought in its own ranges; many are killed every year, and for those that are left there is food erfough and to spare
in the great grain fields of the north-west plains.
In these plagues all sorts of remedics have been tried, such as scattering straw over the flarge and setting fire to it, using "hopper-dozers" horses), rollers, etc but none have been of any vail against the immense hosts. eral characteristics very much the is in geneags are deposited in bean-shaped packets enhorny ovipositur a gubstance. The strong, worked into the ground, the four the abdomen is it is composed are separated, and the eggs and The eggs in a single packet vary in number oviposit in the fall but some in the spring. The young hoppers are wingless, very small and palemonths, having moulted five or six times and demonths, having moulted five or six times and de-
veloped wings. The main factors in controlling the numbers of locusts are our insectivorous birds, sects.

[^1]
## THE HORSE.

Dietetic Diseases in Horses---IF
Pulmonary Emphysema-Broken Wind-Heaves -This disease might be classified as' a disease of the respiratory organs, as the lungs are the organs principally involved, but as it is usually caused by errors in feeding, we will discuss it a dietetic disease. When we know that the sam pair of nerves, originating in the brain (and called the pneumogastric) supplies to a great ex tent both the lungs and the stomach, we can readily recognize that a more or less constan irritation to the latte:, by overloading with food, or the feeding of food of poor quality, may through nervous sympathy produce disease of the former. This disease may be defined as a noninflammatory disease, characterized by difficult and peculiar breathing; the inspiratory movement is performed in the normal manner the an piratory with two apparent effiorts. The difficulty in breathing is liable to remissions, occasionally being hard to detect; a peculiar, hollow cough hard to describe, but easily recognized, called "the broken-winded cough" is a more or less constant symptom, and in many cases is accompanied by violence of flatus per anus. Indigestion and flatulence aggravate the symptoms
The causes of broken wind given by various authors are numerous and complicated, but there is little doubt that it is generally due to im proper food or improper feeding. More particu larly is it due to bad, musty o: dusty hay, coarse hay containing a iarge percentage of woody, indigestible fibre, usually the result of being too ripe when cut and poorly saved; to habitually overloading the stomach with hay of any kind, but especially with a quality that is more or less indigestible. Horses that are heav feeders, if allowed large quantities of bulky food are more liable to the disease than those with moderate appetites. Horses with very round chests, not capable of the ordinary degree of expansion are also more easiiy affected. In a year following a season in which the weather has been vet during hay harvest, and, as a consequence, a large percentage of the hay has been more or less damaged, broken wind will be more frequently seen than in other years. The disease is at first purely a nervous affection, dependent upon the condition of the digestive system, the pneumor gastric nerve being especially involved, and the organic lesions are the effect of the nervous disorder. There is at first an abnormal condition of the bronchial tubes and the air cells, which is quickly followed by structural change. The air cells become inflated; tris prevents free circulation of blood in the capillaries, hence nutrition to the bronchial muscles and mucous membrane is weakened; degeneration fohows, the walls of the air ceils become stretched, disorganized, per-
forated or ruptured, two or more become converted into one hence the air escapes and infiltrates into the lung tissue, causing the condi-Symptoms.-Inspiration is performed with ease but the expiratory movement requires two apmarent effiorts, at the conclusion of which the muscles relax and the flanks fall with a peculiar
force. There is usually a. peculiar, hollow cough which seems to be ejaculated with a sort, of
grunt, which, as already stated, is often accompanied by a passage of flatus per anus. The cough, while peculiar, is hard to describe, but is ${ }^{\circ}$ easily recognized by those who have paid particu-
lar attention to its characteristics, and its peculiarity will be noticed whether the horse
coughs voluntarily or is forced to cough by prescoughs voluntarily or is forced to cough by pres-
sure upon the larynx (the throat). In some
cases there cases there is an irregular, thick discharge from nostrils during fits of coughing, or when
drinking, but in many cases this symptom is not ell marked. By placing the ear against the ribs the respiratory murrur will be noticed to be it is necessary to be familiar with. the normal sounds, which can be acquired by listening to the
sounds in healthy animals. The symptoms are counds in healthy animals. The symptoms are
better marked after the animal has been fed. fiter the stomach has become compa aatively Mipty the respirations may be tolerably easy un-
til he has been fed again. The symptoms are also more marked during damp, close weather than when there is a clear atmosphere. Severe
exercise also aggravates the symptoms. Thy livestive organs are
ways be observed. Care should be taken not to give-ripe hay. Greedy horses should be fed onl
over a reasonable quantity of bulky food of any kind or quality, and if possible should not be worke or exercised immediately after a hearty meal, when the structural change has taken place, it possible that the development may be arrested by the removal of the cause. In this case a purgative is indicated, followed by feeding food of first-class quality in small quantities. When the wainse a complete cure cannot be effected, but the symptoms can be palliated by attention to diet. All bulky food given must be of first-class quality, and given in limited quantities. good practice to dampen all food consumed with lime watit, of a couple ounces the addition of a couple of ounces of raw linseed
oil two or three times daily. Care should be taken to not allow the animal to overload the stomach. Small quantities of bulky food and larger rations of grain than is usually 'given give good results when the digestive organs ar digestion tend to relieve the symptoms, hence gentian, ginger and nux vomica in dram doses o each two or three times daily are serviceable.

Unscrupulous horse dealers resort to various methods to relieve the symptoms of broken wind for the purpose of sale or trade. They know that the animal breathes tolerably well when probable they keep him short of food and water and give him a sharp drive to unload the bowe beiore showing him to the probable victim Large doses of various sedative drugs, as opium, effect, and are often given. A heavy horse can effect, and are often given. practically remove the evident symptoms for a few hours, and the unwary purchaser finds out when it is too late how cleverly he has "been dohe." At the same time, an affected horse cannot be fixed so that he whe foristic movements tion if he is subjected to a sharp gallop for a quarter of a mile or further, neither can th peculiar, characteristic cough be removed, hence it is wise for a prospective purchaser to subjec the animal to these tests if he has any reason to
suspect the roonesty of the vendor. WHIP.

## Forcing the Colt.

While it has been time and again demonstrated that it is generally better practice to work the in-foal mare than to feed her heavily and give an insufficient amount of exercise, the fact re-
mains that to make the best colts after foaling the mare should not be called upon to do much work, and should have the run of a good pas ture. It is not necessary to keep the mare suckling the colt in idleness' and it is an expen sive practice, but where show colts or colts to be sold early in life are raised a great deal is gained by allowing the mare almost if not com-
plete idleness. Besides this the colt which is being rapidly pushed along should get a few oats regularly from a box conveniently placed and away from his dam. When the youngster has grown large enough to eat well he will usually
do better to get the oats himself than if they are fed to his dam when he only gets a small portion of their good in his milk. Of course, and colt both should get grain, especially at this season when the pasture is none too good, and flies quite troublesome

## On Stallion Enrolment

Editor "The Farmer's 'Advocate":
In a recent issue of ""The Farmer's Advocate" I noticed where R. W. Wade had seen a marked change in the number of grade stallions that had gone out of business since last year. If Mr and notice all the posters along the different enrolment certificates in their pockets or whos horses are not enrolled at all. and would take account of all the others out doing business
without any posters at all. it might change his views. For my part I fail to see where the year than last. or where it ever will be better, as it now exists. I do not know of one
mongrel staljon in this isection that is not doing the same husiness he always did, and for my'
part I will never pay $\$ 1.00$ to have my stallion enrolled arain. I will take the chance of being fined, and if I am there will be others also keeping the law and the rest breaking it and let gosot fiee.
Carleton
fo., Ont. T. A. HAND.

## LIVE STOCK

## Our Scottish Letter.

Having just returned from the Royal Show a Shrewsbury one's thoughts naturally turn to and what one saw on the same show-ground 30 years ago (in 1884), when the 'same town was visited by the Royal Agricultural Society. I may be interesting to some to mention that the writer has been present at every show of the $R$.
A. S. E. since 1879 with the A. S. E. since 1879 with the one exception of
that held at Derby in 1881 . Possibly this is what is called a "record." In any case it is not at all likely that many, if any, alive today can equal it. Apart from that which 'is the common experience of humanity-the passing can be discerned in the conditions of a changes now as compared with those of thirty years ago One of the most remarkable is the prominence giyen now to agricultural education and training in the technique of dairying and domestic management. A splendid school for this kind of
work is conducted by the Shropshire Council at Radbrook near to Shrewsbury. This technical school, which' is for girls only, is under the control and management of a lady named Miss Macleod, who is of Canadian birth although of Skye descent, as her name indicates.
So popular has the school become under her management that now in place of under her eraivassing for pupiss, candidates have to await their turn for admission, and none outside the county are admitted as students until the whole of the county candidates have been enrolled.


Cxford Blue Blood.

## Champion Shire stallion at the Royal Show, 191

In spite of extensive exportation the quality this great breed shows no deterioration A very interesting department is the working the work done by competitors in butter-making which is always a big "draw" at the Royal. The breed now known as British Holsteins is rapidly forging ahead. Since a register was started and
records were officially kept, the advance of this breed, not in England only but in Scotland, has been phenomenal. On certain classes of land there is every likelihood that the breed may prove a formidable competitor with the Ayrshire So far the last-named breed has succeeded in holding its own, but its patrons have need to usually good appearance at Shrewsbury. The class of uncalved cows was well above an aver age, and the merits of the breed were quite suc cessfully made patent to visitors
heaviest classere next to Shorthorn cattle the heaviest classes to judge. The best animals Dunsmore Chessie, now owned by Sir Walpol Greenwell, Marden Park; and one of the best Shire mares seen for many a day. Stallions wood lot. They lacked the essential points a lasting cart horse. viz., soundness, and wearing quality in feet and limbs. By "soundness" we do not mean technical soundness; we mean the indescribable something which stamps a horse as a wearer. The most valuable horse is that for the longest period. To attain this end it needful above all things to have sound, good wearing feet, and razor-like bones with clean open joints. These are the very points in which the Shire stallions see at the Royal appeare to be deficient
At present
vored with a visit from a delegation of $S$ outh African farmers. They have come to this coun-
try as the guests of the try as the guests of the
Un ion-Castle line of steamers whose chair man , Sir owen
Philipps, is one of $t h e$ nost spirited breeder of Shorthorns at pres being feested and feted in a remarkable $\dot{\text { w a }} \bar{y}$, but they are not seeing quite as much practical arming as they would Hay crops are light The crop is being rapidy saved north and
south. The weather on south. The weather on
the whole has been ideal the whole has been ideal
for getting such work done. The heat a.t Shrewsbury was over powering, and fourteen nimals succumbed; very heavy rains fell accom-
panied by severe thunpanied by severe thunshow. These rains have been general all over some places they have ome places they have
wrought havoc. On the wrought havoc. On the

Another new feature is the prominence given to practical training in the development of rural
education. Premiums are awarded by the Royal education. Premiums are awarded by the Royal manship in hedging, ditching, draining and fencing, the buiding of stacks and all the other
details of farm labor. The laborer is being details of farm labor. The laborer is being
recognized, and his importance in the rural recognized, and his importance in the rural
economy is no longer ignored. At the meeting held in the show-yard the Society's gold medal was presented to the champion hedger, found after a thorough test by the local societies. All
this is work in the right direction, and one did his is work in the right direction, and one did Shrewsbuyy is the centre a great agricul tural area. It is possibly one of the best mardistribution of store "cattle and sheep, it has few equals anywhere in Great Britain. It was one of the first towns to adopt the principle of selling it is the headquarters of the famous weight, and breed of sheep. The Show which is just closing has been char acterized by an exceptionally good display of Shropshire skeep. Regarding the last it is worthy of note that the highest average at the Scottish flock of T. A. Buttar, Corston, Cowpar Angus. Mr. Buttar has a very fine flock, and commands a ready sale for export. Shorthorns
bridge was swept away,
its foundation being undermined, and the bridge collapsed while a train was slowly passing over
it. Several lives were lost. The disaster tin unique in the history of railway the disaster is Grique in the
way travelling fin
SCOTLAND YET.

## Feeding the Calves.

## To a large extent the care of the call deter-

 trying value of the mature animal. This is should be done to keep up their vigor and produce rapid growth during the dry, hot season. vell in a shaded paddock, half of remarkably newly-seeded timothy meadow and the other hall oats with rape sown in. It is astonishing how the calves have trimmed off the oats and are feeding on the rape, and their growth and conaddition to this small improvised be desired. In addition to this small improvised stalls have beenmade for each call, with a long manger along the ront, and a pole behind to fasten the calves in while they drink their skimmed milk and eat their chop feed. This ensures that eack calf gets his full allowance of feed, none being robbed by the bigger and stronger youngsters. When the
calves are through with their feed they are recalves are through with their feed they are re-
leased, and move off to graze or to the shade, Next to stabling during the day and allowing out at night only, we believe this is the best method
possibly it is the most practicable of all. It is at least giving first-class returns with our calves. boards and scantlings.

Green Crops for Sheep and Lambs. Editor "The Farmer's Advocate"

Mid-summer is here. The spring pastures which sprang forth so luxuriantly are now beginning to show signs of the continued grazing of stock. The billy and more barren parts are already closely cropped, and in some places ready closely cropped, and in some places if the usual hot, dry summer weather prevails a phortage of pasture will be general, especially on those farms that ane stocked up to their full capacity.

It is at this time of the year that we hear so many complaints about the evils of sheep pasturing with other stock. It is not uncommon to hear a group of farmers say that "you can chase louse over a sheep pasture in August," and in driving through the country, one has to admit
that pastures are often very scanty where sheep are grazing with a herd of dairy cows or other stock, yet when you come to analyze the situation, in all probability the farmer who pastures twèlve ewes and so many lambs with his other stock, has not allowed an acre more than his eighbor who does not keep sheep. There out into such a pasture early in the morning and the sheep and lambs are busy at work. They will bite twice or three times while the other stock are getting one mouthful. They are to be ound feeding on the shorter herbage, and if you ture that they have grazed over it will be cropped very short. Go again to where the cow or horse have been feeding and they will have taken only the stronger part of the plants, leav-
ing that part which the sheep relish most. This ng that part which the sheep relish most. This
would indicate that the most economical returns are got from a pasture where sheep are kept with other stock, especially where sufficient area is allowed for both, but in the summer season when the pastures make slow growth there is no classes of stock, both on account of their activty and close grazing habits.
This being the case some provision should be
made whereby sheep and lambs can be removed, made whereby sheep and lambs can be removed, part of the time at least, from pastures where other stock are grazing. As already indicated
sheep show a decided preference for fresh, green herbage, and this has led to the praetice of sowing green crops for use during the late summer and fall months, when other pastures are short. These crops must be rapid growers, and furnish a crop of green foliage of a highly nutritive na-
ture. A number of such crops are recommended, ncluding rape, vetch, peas, oats, rye, fall turnips, cabbage, clover and elfalfa.
Rape is perhaps the most widely used, being a rapid grower and much relished. It may be of corn, or separately. When sown with barley $r$ oats it is sometimes troublesome at harvest ime, as in a favorable season the leaves are cut harvesting. Perhaps the better way, especially with barley, is to disc immediately after harvesting and reseed to rape. Oats are usually harbetwein the ruwa of esm the seed may be sown just previous to the last cultivation. As soon as the corn is harvested the rape will make rapid growth, and has a tendency to keep down weeds. Aside from these crops rape may be seeded
alone either in drills or broadcast, the usual time alone either in drins.or broadcast, the usual time July. By seeding on different dates a succession of crops may be secured for use over a long period. Rape is usually ready for pasture in
eight to ten weeks after seeding. When sown eight to ten weeks after seeding. When sown
broadcast from 5 to 8 Ibs . of seed per acre is broadcast from 5 to 8 tts . of seed per acre
required. When sown in drills twenty-eight thirty inches apart $1 \frac{1}{2}$ to 2 rbs. is suificient Seeding in drills' gives an opportunity for cultivation, which is often valuable in cleaning up
dirty piece of ground. Rape grown in drills is dirty piece of ground. Rape grown in drills is
much stronger in growth and the rows provide path for grazing, thus eliminating to a certain
extent loss from tramping. On the other hand rape grown broadcast is perhaps more tender especially for lambs, and less labor is required.
Care must be taken in getting sheep ac Care must be taken in getting sheep ac
customed to rape. The afternoon is the hes customed trive sheep or lambs into a rape field time to drive sheep or lambs into a rape field, as
then they are not so hungry as early in the momning. Sheep and lambs are subject to bloat in the morning. Severe frosts are also or early set up acute indigestion. The best results are
obtained from feeding rape in conjunction with a good pasture field.
for sheep, either as a pasture or for green feed. for sbeep, either as a pasture or for or late fall pasture. Fall turnips have much the same value as rape, and
broadcast.
Cabbage is especially relished by sheep and Cabbage is especially relished by sheep and
affords a large amount of the best feed. Owing affords a large amount of crop is not likely to be cultivated only in a small way.
Clover and alfalfa make excellent supplements to other pastures, and are highly nutritious.
There are always a few acres around every farm that can be easily utilized for the gre over of green crops. Many of our fields are overprofitably producing a green crop for sheep,


Princeps of Bleaton

## Champion male Aberdeen-Angus at Glasgow, 1914

thereby increasing the earning power of the farm and at the same time maintaining the fertility of are forced to sell their lambs early in September owing to shortage of pasture, whereas a little oresight and outlay would enable them to carry their lambs over for the top price. Now is the time to take steps to avert this difficulty.
Macdonald College a. A. A. MacMILLAN.

## THE FARM.

## Cribbing a Well.

## Editor "The Farmer's 'Advocate

Can you give me any information as to the suitability of concrete for cribbing a drinking
well for house use? Which would be the better Well for house use? Which would be the better,
brick or concrete ? Would either of them make any difference in the taste of the water $\gamma$ suggestions in regard to digging and cribbing house-well would be very acceptable, as I shall have to dig one this summer.

magram of well, showing a backing of puddled clay
other impermeable materinals between the cement other impermeable materials between the cement.
work and 'the porous strata through which

1 think that either concrete or brick will harden the water somewhat at first, but I do not
think that either of these facing materials will give any decided flavor to the water. It is, well be water-tight, and as long as this is
secured without ecured without affecting the water it does not
natter what the matterial is.
In the past secpapa water was probably a safe
water, but the soil in most parts of the older settled districts of the Province has become so contaminated with decaying vegetable and animal
refuse that surface or seepage water refuse that surface or seapage water can no
longer be considered a safe water for domestio purposes. Consequently, every effort ought to be made to exclude this kind of water. If the well is dug in a clayey soil this may be secured by puddling the clay back of the brick, stone of concrete wall. In this case puddled clay is used penetrates a sandy or gravelly soil it may boll more convenient to put in a good cement be and thoroughly cover the surface with a th mixture of water and cement. This can be put on with a whitewash brush,

The tightwall should extend down
several feet or to the several feet or to the
level of the groung
water. water. The object is
to force the wate to force the water to filter through the soil
and come up under the and come up under the
wall. Th e filtering process $\begin{gathered}\mathrm{Th} \\ \text { purifies filteringe } \\ \text { the }\end{gathered}$ water, and the deper
it $h$ as $t o$
settile through the soil before it gets into the well
the better. It is possible to say ius it how many feet of soll the water should pass through, hut wea sbaild
insist on at least 8 or 10 feet.

The idea is to construct a well that no
water may find enfrance to it without
filtation through a depth of soil at l-ast equal to the rertical
distance between the round level ind the owest level of ground water. To insure this it. is important that the wall of the well extend above water getting in directly from the surface of the soil. Furthermore, the top of the well should be practically air-tight. This may be either cemented over or double boarded. It is too true
that a great deal of contamination gets tinto wells from the to either through gets into water making its way into the well or from drippings from the pump, carrying the dirt into the well through loose boards which cover the
well.
PROF. R. HARCOURT.

Shallow Cultivation for Wheat. In the course of a trip not long ago we were very heavy crop, the heaviest for which was a size that has come under our observation thie year. According to the old-estabished custom in the neighborhood it was deemed necessary in preparing for wheat to ridge up," as it is simply a deep cross-plowing. This ridging up is
The working of the land for the particular crop in question entirely exploded older theories. It was a summerfallow, and the only plowing it got was with a
gang-plow about four inches deep when the gang-plow about four inches deep when the with a broad-shared cultivator, and all weeds kept down, cultivations being frequent. The wheat was sown fairly eairly on this shallow seed-bed and a bumper crop resullted. The

This Mixture Exterminates Grasshoppers.
In our issue of June 18th. Prof. Caesar, of the remedy for grasshoppers, which in some localities in a dry season become a pest. For the beneif
of our readers who are experiencing trouble with these insects we repeat the formula:

## Bran ....... Paris gre Syrup or

Lemons or molasses ................ 1 2 quarts.
Water, about ……….......... 3 fruits.
The bran and Paris green are mixed thoroughly in a washtub while dry. The juice of the
lemons is squeezed into the water, and the peel and pulp are added after being very finely cut or ground up. The syrup is poured into the water rore using the bran and Paris green is thorough ly moisteried with the water containing the lemons and syrup. Do not make sloppy. Prof. Caesar informs us that he has just completed a trial of this preparation on an eightacre field, and that the results were so satisfac-
impress upon its many readers the value of this new remedy which he describes as remarkably cheap, simple alts on the eight-acre field treated, which was a badly-infested old pasture, were al The poison should b applied very early in the morning, when the in sects feed and when the material takes a longe time to dry. The amount given in the foregoing that it must be scattered very thinly over the fields, so thinly in fact that wild birds or any domestic animals are not injured by it. If grass hoppers are bad on the place try this the nlowest easiest applied and best remedy, and let us know your results

## Getting Ready for Fall Wheat.

Fall wheat has ben and still is a good crop
grow in most sections. All farmers know to grow in most sections. All farmers know
the advantages it presents in the seeding and harvesting, and the opportunities for seeding down. In addition to this many weeds succumb in fall wheat that might still persist in fields sown to spring grains. Straw is none to plentition with roots and silage, and this point alon commends the growth of wheat on a portion o the farm.
wheat was to summer-fallow, but some farmers believe it an extravagant custom. Two year are-requiredta nroduce ope crop, but if the lan is at all dirty there is a motive in the madness. storing up moisture and many good crops an storing up wear sown on a summer-fallow. In see nection with this way of preparing for wheat it has been customary to plow deeply just prior to sowing, and then make a good surface. Fall
wheat apparently requires a fairly compact bottom, and if the cultivation has been thoroug owing should put the a land in better shape tha plowing down the weathered soil only to bring up the raw matexial upon which to sow the
seed. The harrowing method was used last fall, and the results have been pleasing this harvest perhaps a clover sod is the best foundation, but many require this part of the farm for roots or
corn. Failing a clover sod a barley stubble is not to be condemned, and it is all the more acceptable when manure is available, for it has a stubble should be the resulting crop. after the barley is removed, but not too deeply five inches being sufficient, and then the harrow shoul be put to work. mie month of Augus kill them in the germinate, weed seeds an Although oat and corn stubble are recommende as being suitable yet, for Canadian condition generally, it is taking a chance when one wait till the land is available. By the time a proper seed-bed is prepared in getting rathe this practice imperative is it to make a heavy coating of manure is just as wel plowed down shallow, but if only a small allowance is to hand perhaps a top dressing is wise. winter by holding the snow, especially if it be of a coarse character and contains considerable

On account of the Hessian-fly seeding in most sections has been deferred until the middle of
September, and there are districts, chiefly in September, and there are districts, chiefy in
South Western Ontario, where this period should be adhered to, but in other sections farther north Growers might judge from the past whether dan ger exists or not, and where there has been no y in the past few years the probabilities are hat it will not appear in destructive numbers week of August is not too early to seed, and seeded good crops harvested this summer were first week in September of 1913 .

A Good Meadow Cleans Land. experienced fot be the best farm practice, but an experienced farmer has demonstrated that beyond
a doubt seeding down and cutting one or two crops of hay per year, or in fact pasturing the Second crop off quite closely. is one of the surest
ways to clean the land of noxious weeds. By cutting carly and closely, weeds are caught a the right stage of growth just before the forma
tion of seeds and are killed. not succumb to the first cutting are caught in trouble. It does not pay to leave the land dow too long, or until the clover and timothy hav you ever notice that a hoed crop gives little entile dif
ficulty you ever notice that a hoed crop gives little dif-
ficulty when put on sod? Why? Largely because
the son the sod land being cut over for hay once or
twice a
y, has been cleaned by the practice. Of course witch gresceptions, seeding down dous not kil the land for many mustard seed will remain in ur commoner, troublesome wut a great many the cutting during their struggle to produce

## Prices Fair in York County

## Editor "The Farmer's 'Advocate"

At the time of writing, July 21st, haying is almost compieted, it being very light in most higher prices are nown from \$12 to $\$ 15$ per ton Pastures are very short and dry and some farm ens are cutting their oats for green feed, as cattle are going back in their milk. Mangel and turnip crops are very poor in some places on ac count of the drought. We have had but one good rain this summer, while in some parts of tent caterpillar was a plague through here this summer, attacking the apple trees and stripping them. All small fruits will be very scarce, and high prices are being asked by gardeners.
ear as thain, more silos are being built this is looking the best who have a field of corn will not want for fod der this winter. Low fields in which grain was sown are looking best. The high fields wer will not fill as well as the later grain
-The tive stoik market-is ain quiet. Cattle are scarce, in fact, good bee ringers can hardly be bought. Some two-year olds were sold to the butchers from $\$ 60$ to $\$ 75$. Hogs are a fair price, and will be if there are not too many shipped in from other points. good rain just before it was sown.

## THE DAIRY.

## How to Pasteurize Milk ?

Editor The Farmer's Advocate all similar word originated from the name of a noted French scientist, Louis Pasteur, who lived through the greater part of the 19th century. Born the son
of a farmer, he rose to the highest pinnacle of a farmer, he rose to the highest pinnacle of
scientific fame. In this respect he scientinc fame. In this respect he is a brigh sighing for fame. The road to success and fame may start anywhere in this democratic countryfrom behind the plow, behind the counter, from the public schooi, the college, or anywhere that the young man with ambition and grit may find himself.
facture of wines farmer to produce a uniformly good ' quality of wine, where formerly all was haphazard, or luck, -good and bad. By heating the raw wines and produce the desirable flavor in wine, and check the undesirable A young man named Jenson, who was an
assistant at
the
Royal Agricultural College, Copenhagen, Denmark, was requested by Prof Fjord to invostigate the butter-making industry culties in making fine butter. He applied heat to the cream, and added a pure lactic culture to .


Harvest is Usually a "Dry" Time
recorded on discs, which may be removed and filed for inspection or reference purposes. 8. The third system is that known as "conmilk or cream passes in a continuous stream through the heater and over a cooler. This plan is suitable for handling large quantities of milk or oream in a short time, but in order to be effective, it is necessary to adopt a higher tem-
perature for heating than is the case for the perature for heating "than is the case for the temperature are both important factors in de ciding the effectiveness of pasteurization. The Department of Health in New York sent out the follow.

Heat to 158 degrees $F$. for 3 minutes.
Heat to 155 degrees F . for 5 minutes.
Heat to 152 degrees $\mathbf{F}$. for 10 minutes.
Heat to 148 degrees $\mathbf{F}$. for 15 minutes.
Heat to 148 degrees F . for 15 minutes.
Heat to 145 degrees F . for 18 minutes.
Heat to 145 degrees F . for 18 minutes.
Heat to 140 degrees F . for 20 minutes.
We thus see that according to this authority a temperature of 158 degrees $F$. for 3 minutes is grees for 20 minutes. In most of our work with cream at the O. A. C. we have got best results by adopting a temperature of 180 degrees to 185 degrees F. for continuous pasteurization of cream used the "holder", type of pasteurizer almost al togetker, with a temperature of 140 degrees to 145 degrees, but the keeping quality of the butter does not seem to be so good as when we used the higher temperature. We are making some tests on various tēmperatures for heating cream, duron in the Annual College Report for 1914.
4. To heat a small quantity of milk for answers the purpose very well. Or the milk ma be heated on the stove in a clean, granite or tin sauce-pan, and then be cooled in the refrigerator or in cold water
Pasteurized milk is certainly the safest kind of milk to use, and where the dealer does not sup ply it, it should be prepared in the home.

## Missing the Mark.

There is a practice going on in meny districts of Ontario which is not conducive to success. It is neither beef cattle farming, nor dairying, but a hopeless, halfway practice which misses also the dual-purpose cow idea. Beef cattle went fint and as a result breeders became careless. Milk and milk products were in demand, so the owner of some beef cows immediately trotted them off to be bred to the nearest. Holstein or other breed of dairy bull, very often a very inferior specimen of his breed. The result has not always been satisfactory. Many of the calves have been a decided disappointment, yet nondescript heifers have taken the places at the pail formprly held by their dans. They may be fairly good milkers, but as breeders, what? Simply culls. The cross will not stand perpetuating generation after generation. It seems a shame to see what were good herds of reds and oans now showing all the colors that cattle carry plastered on in blotches and spots, and periormance are not good. They are no, credit to beef cattle, and no dairy breed cares to claim them although it may cause a Holstein owne passing on the train a thrill of joy to sed if he be permitted to look over them closaly
if someone asked him to buy one for his milking herd he would turn away in disgust. What will happen now that beef is in. keen demand? How take get right? Only by getting once again the right class of fenales, good milkers which will raise a good type of calf worth something in the
herd or on the block, and by breeding them to a first-class beef bull. If specialized dairying is to be followed, get dairy cows. If beef cattle
are to be bred, stick to the beef cow, and if milk and beef together are desired avoid indiscriminate
crossing. Get a strain of a breed and develop

Angsie vimily of Riversidere 2nd, , a junior four Aaggie Emily of Riverside 2 nd, a junior four-
yearooli Holstein cow, owned by the Hamilton
Hospital for the Insane, stands second for age Hospital for the Insane, stands second for age
in the test with considerably over 17,000 His. of in the test with considerably over 17,000 this. of
milk. This herd is doing well, and is consid-
ered one of the liest in the county. The

## POULTRY.

## With the Poultry.

Right now is the season to get the chickens out to the fields in their colony houses. Try the corn field. It provides shade, cultivated land, meat food in the form of insects, and around its
borders green food is generally abundant. Did borders green food is gencens have a preference
you ever notice that chickens in green food? They do not care for grass if they can get young oats. Here is a point to act upon. Why not sow a few oats at intervals throughout the season so that hens and chickens may have an abundance of the particular kind of meat food they like best.
dry grass or even the younger grass and make dry grass or even the younger gro
raid on the tende--growing oats.
. If you haven't a corn field get the chickens out anyway. Place their colony houses down the lane and let them have the run or the stubble fields or of oat fields not cut. Spring chickens will not do much damage to oats. It
is necessary, however, to keep the old hens out of the ripening grain.
Give the hens more grain feed, as it becomes more difficult for them to forame enough feed. IA great mistake is made in forcing hens to picl often done on the farm. orten done on the rarm.
is even more essential than monns when season If not water skim milk should be given. The latter is preferable, but is not always available. Anyway, give plenty of clean, fresh drink from
clean troughs or diskes.
is simply the cruel to the cluckers. Broodiness Shut the broody hens in a small coopy in a shady


Guernsey Cow.
they will soon try laying again for a change. It does not produce
desired results to starve or abuse Young ducks require shade. Intense heat is fatal to the flock, and many healthy birds are often lost before the owner realizes what is wrong. Besides, young ducks should not be fed

## HORTICULTURE.

## Cherries as Fillers

While the filler system is la:gely used in
orchard plantations there may be cases where the practice is unwarranted. On land low in value
and suitable for roots or berries the fillers might profitably give way to those crops, but in many that case the planting of fillers is justifiable. Aithough cherries have been a disappointment for them, is still good, and sweet cherries, even The season's results and the general character is the cherry commends that kind of fruit to us asarively, early ages and goes out when the land
paration
is ation is required hy the standard apple trees. All
land is not suitable for the production of cherries or the growth of the trees, hut on a
light soil of a gravelly nature with light soil of a gravelly nature with a loose sub-
soil the conditions are favorable. The way
chare churries lrave borne this year and their appear-
ance in the orchards visited are ance in the orchards visited are good recommen-
dations for them as fillers, and where that system is to be followed the grower will do well
lv taking his local and soil conditions into con-
sideration and priving thoul

## Fortifying Against Mice and Rabbits.

Trees injured by mice and rabbits are an annual occurrence with us. A remedy is of little use, it is the preventive that is so much ropredations in the fall of the agar their deMacoun, of the Centrial Experimental Farm. 1 ? outlined a few means' most effective when followe

Every year thousands of trees are injured in Canada by mice, and, in the newer districts, large number by rabbits also. There could be othing more discouraging to a fruit grower, or which had cared for, perhaps for is orchard vears, ruined by mice- and yet this fre six happens. All this could be prevented if th farmer or fruit grower would use the information available and protect his trees from mice. Some years there is less injury than others, and this act leads to carelessness, and when a bad year comes the trees are unprotected.
year mice and rabbits ing on the scarcity or abundance of food the number of mice which are in the vicinity and the character of the winter, the injury is always there is rubbish lying a.bout. should be removed before, the winter sets in in most cases it is not necessary nor advisable to have the orchard in sod, particularly when the trees are young, although it is highly important to have a cover crop, which also may sometimes become a harbor for mice. As mice may be expected trees should be regularly protected winter, their ravages. Mice usually begin working on the ground under the snow, and when they come 0 a tree they will begin to gnaw it if it is not protected. A small mound of soil from eight to twelve inches in height raised about the base of the tree will juring the tree, and even snow tramped about the tree has been quite effec-
tual, but the cheapest and surest practice is to ordinary building with the price of which is merely nominal. Tar paper is also effectual;
but trees have been in jured by using it, and it is well to guard against this when building paper
will do as well. After the paper is wrapped around the tree and tied, put about the lower end to prevent the mice there, as if they wor start the paper will not
stand in their way may be stated, however, that although several building paper for years been wrapped with Farm at Ottawa, there have been practically no instances where the mice have gnawed through protector to get at the tree. The use of a wir is economical in the end of tin or galvanized iron, There are a number, as they are durable. recommended for the protection and poison the destruction of the mice and rabbits, but, none ralbits are numerous the poison has not sufficient effect upon them to prevent injury altogether The following method of poisoning has been yery difficult to deal with. mice, but rabbits are Make a mixture of one part by weight of arsenic with three parts of corn meal. Nail two wide this near the as to make a trough. Invert about a tablespoonful of the poison on a shingle and put it near the middle of the run, renewing the poison as often as is necessary

- a tree is tadly girdled by mice or rabbits -isually dies. If, as soon as the wound is ticen, it is cleaned and covered with grafting wax or cow dung and clay and wrapped with drying exclude air and prevent the wood from t.ee if the girdle is a smallity of saving the t.ee if the girdle is a small one, as the sap
which rises through the wood will continue so, and returning through the inner bark will so, and returning through the inner bark will
tend to repair the wound, and if the latter be


## THE APIARY.

## Increasing the Colonies and Con-

## trolling Swarming.

The beginner with bees generally is anxious to ncrease his one or two colonies to a fair-sized apiary, and the man who has all the colonies he can handle tries to control swarming. A writer in "Gleanings in Bee Culture," signing himself "Outlaw," describes his methods, and they may interest any of our
colonies to care for.
"With the new season I found myself imbued with the usual hopes and aspirations of the with the usual hopes and aspirations of the predominating idea was that of making increase. I wanted to see my the past contained, its quota on the subject of making increase; bubject I will wager a month's salary that the major part of the increase for this season will be made by natural swarming. From my observation I have come to the con-
clusion that, while the novice, thio first few seaclusion that, while the novice, sons, boasts that natural swarming is a the apt to orget the fine-spun the speed by. piary, as theory of management which, for want better name, I will call the "outlaw method," is
one that in years past I have practiced in al most all kinds of climates and localities under desires but a moderate increase, and all possible results in the production of honey, I consider it the best.. The method is based on the theory that, while it is natural for bees to cast a swarm, the colony must first reach a certain con-
dition before getting the swarming idea, and dition before getting the swarming idea, and dition up to and until the heavy honey-flow starts, the idea of swarming never matures. A colony of bees under normal circumstances will not start the construction of queen-ceils until the brood-nest is in this certain condition. The method here advocated is to go over the apiary colonies which are approaching the danger-point a frame or two of sealed brood, replacing with empty combs or full sheets of foundation. This must be done, just enough to hold down the idea of swarming, and it can be done so that, when the principal honey-flow comes on, the colony is prevention of swarming
"In making the increase, piace six or eight of the frames of sealed brood and the adhering beess in a hive, always taking care to place a frame
of honey outside of the last frame of brood if the hive is not completely filled, then give to entrance to the hive should always be stuffed with grass, tight enough so that it will take three or four days for the bees to clear it. This prevents the bees from deserting the brood and
returning to the parent stand. This new colony will, as soon as the queen gets to laying, be on a par with the old colonies. The bees of that colony will not have any desire to swarm during the season, and should produce as much honey as the average colony in the yard. The reason
why the original colonies do not swarm when why the original colonies do not swarm when brood, the strength is somewhat reduced, which no doubt has a bearing; but the principal cause is that there is vacant comb in the center of the the bees to have place it is always the desire of the bees to have filled with brood before desir-
ing to swarm. There is also the further reason that, having a great amount of unsealed brood in the hive, the bees are not in condition to desert. so much unsealed brood.
. If this method is followed out carefully when the honey-flow begins in earnest it is possible to old, of almost equal strength, which is sometring that all practical apiarists desire. It might also be stated that the weak colonies should also be
built up with the aid of the brood that is taken from the strong ones. but an outline. The locality, time of honeyeach, case have a bearing as to just what results North where the honey-flow commences about the first amount if the ohject is to secure the greatest amount of honey possible, after building up
the full quota of weak colonies that are found in the averace apiary, making an increase of 20 per cent., is about the proper amount. The
great advantage of this system is that in all stages the queens have an opportunity to work
at their full capacity, and are not confined or restricted to laying in a comb or two as are applies to what the bees themselves are capable age colony of bees capable of fact that an aver-
quothering its full
the surplus capable of making only a living, and the surplus received is nothing.

## A Light Honey Grop.

Indications point to a short crop of honey in Western Ontario describes this as honey year,", The bees have not been working as they hort. According to reports in the American bee ournals like conditions prevail over there, so the journal
market
says:
It is
It is evident now that the clover short this season. While the yield has been good in some favored localities, has been from
fair to good in northern Michigan, Wisconsin, and air to good in northern Michigan, Wisconsin, and
Minnesota, the aggregate yield will be very much Minnesota, the aggregate yield will be very much
below that of last year. When there is a short age in clover it always means a stiffening of the
When the prospects were so promising a month ago, the general honey market was in a
state of decline:
What few offerings were made state of decline: What few offerings were made were on a very conservative basis. $\begin{aligned} & \text { In fact, } \\ & \text { Florida beekeepers wrote asking what was the }\end{aligned}$ matter of the market that they could not sell
their crops. Buyers, expecting an enormous yield


Trees Must Be Grown Before the Fruit.
Trees Must Be Grown Before the Fruit.
of clover again, either would make no offers for up and announced that he had found the army of clover again, either would make no offers for up and announced that he had found the army not care to sell. But from now on, there to see it, and we made a rush to get should be a stiffening of prices, notwithstanding there is a prospect of a good yield of alfalfa in the West, both comb and extracted, and from a
light to fair yield from mountain sage in California.

Those who have secured a crop, of clovier comb the price too high. In fact, their figures should be but little higher than those of last year. Buyers will not pay very high prices for clover
comb honey if there is a good supply of alfalfa comb honey at lower prices. So western alfalfa will probaby prevent a very sharp advance on being educated to alfalfa. The day has gone by when
white clover can command a price exclusively its
own. There has been a comparatively large yield so far from basswood-in fact, it is a basswood basswood left, the yield will be good; but the areas where it grows are so limited that it does
not greatly if at all affect the general clover not greatly if at all affect the general clover
market.

## FARM BULLETIN.

## The Army Worm

By Peter McArthur.
When I announced last week that this week's article would be about ':loyalty" I did not take into account the number of things that might happen to prevent the writing of a careful essay on so all important a subject. I did not take into account the hay that had to be hauled in,
and hauled in hurriedly because of threatened rain, and I did not guess that the army worm would appear in Ekfrid and cause such excite ment. I am too much in earnest about getting a proper analysis of Canadian loyalty to write After it hastily or without due consideration. After pitching hay and building stacks I am too
much fagged to discuss anything more important much fagged to discuss anything more important and they are important enough. This is the time of the year when all rules for working regular hours are likely to go by the board, for the thunderstorms do not keep regular hours and the crops must be harvested. Even if I could
write the article everybody is too busy to read write the article everybody is too busy to read
it, and $I$ am hoping that $I$ can get many people to consider the ques-
tion seriously, and write to me about it so that we may decide
on a firm foundation on a frm foundation
for loyalty. I do not find the cockles of my heart warmed very much by the high -
sounding phrases. used by public orators, but I am conscious of a very sincere love of
Canada. All thing considered I think we had better defer a dis-
cussion of the subject cussion of the subject.
for a few weeks until we are all in posibest thought. Now for the army
worn. by the papers that it
w a s appearing in other parts of the country I felt that it be for Ekirid to escape. We get or r
full share of all the troubles that are going in the was of pests and blights, and
there are times of depression when I go around quoting with much appreciation the words of Joel, the son
of Pethuel : of Pethuel

That which $t$ he palmer worm hath eaten; and that which the locust hath left hath the canker worm eaten; and that which the canker worm hath lelt hath lar eaten."
Because of thel was not at all surwrised when Mr. Noble, a top on the hay stack we were working at, and the boys and I climbed into the buggy and went with him. It was almost dark, for we had been working late to get the stack finished on account of the threatening weather. By the time we reached the infested field it was too dark for us
to see, and after a futile attempt to find the pests with matches we got a lantern and made a careful search. Fortunately the outbreak is not serious, but we managed to find a few specimens. Before coming to me Mr. Noble had picked a uple of hundred from under one barley shock, confess that I had expected to find the creatures marching on their work of destruction like an army with banners, but it seeme that that is not their way. In fact the appearance of the army worm was a distinct disappointment. If I had me what it was I should have said that it was the old-fashioned cut-worm that sometimes works havoc with young corn and cabbage plants. I do not wish Mr. Noble to be held responsible for
my description of the army worm for I neglected
to get a scientific description of it from him, but
I understand that it really belongs to the cutworm family, and that it develops the characteristics of a marching army only when it becomes so plentiful that food becomes scarce and it has
to keep moving to get enough to eat. The
specimens we found were specimens me wo found were on the ground under
the sheaves, and when we disturbed them they
curled up just as the cut worms do when you overturn a clod under which they are hiding. necessarily hasty and imperfect, and at the present writing I do not know whether the pest is It is raining this morning I mam unable to con-
tinue the search, but there is a knoll on the farm where the cut worm was very plentiful a few
years ago-so plentiful that I had to re-plant several acres of corrn, and if they are anywhere
on the farm they will probably be on that on the farm they will probably be on that knoll.

Hunting for army worms by the light of a lantern is almost romantic, but it is not a thing
to go to sleep on; especially if you lunch on bread to go to sleep on; especially if you lunch on bread
and cheese after coming home, We went to sleep in the tent talking about the army worms, and
when I slept I dreamed. I was wandiering when I slept I dreamed. I was wandering I thought they were going to cat mea-constrictors. tying to fight them off with, a me, and Ittle shast barrelled revolver that wouldn't shoot. It was
a fearfui sensation, well worthy to be deecribed
in the words of Keats:
That night the Baron dreamt of many a woe,
And all his warrior guests with shade and form Of witth, and demon and large coffin worm Were long be-nightmared.
I a bit mot think that large coffin worms would be a bit more gruesome than the huge army
worms I battled with in my nightmare. When
things were at things were at their worst and I I was being swallowed at one bite I wakened with a yell that
was heerd in the house and maybe farther. And the moral of this is that one should not hunt
for armay worms with a lantern, and should not eat bread and cheese before going to bed. Hut as no real farmer would be likely to bed. do such
things it is probrbly unnecessary to warn ine?n gainet it.

A Drouth in Ontario and York Counties.
This season will be remembered for many years hy farmars in several of the coulntioe many of On-
tario east of Toronto as one of the dryest in years. Down in York and Ontario and on last, when the counties in south-western Ontari were favored with two or three coptious rainio
the eastern counties were parching at 90 degrees the eastern counties were parching at 90 degrees
in the shade, and not a sprinkle. It was great
weather for making hay, but not the hest for weather for making hay, but not the best for for
filling oats and rushing along roots and corn, all though the latter crop seemgd to be doing well such good counties as York and Ontario the bulk
of the crop would not average more than threequarters of a ton to the acre, but the weather hay harvested in years is now in the the best barns. Never have we noticed hay make faste and hot, dry ground underneath the sun above,
dried out in swath and hot, dry ground underneath the light swath
dried out in about three hours to such ain extent that in many cases it avas cured ready lor the barn, and in most instances was harvested with-
out even the dampness of a dew.
The acreage of barley in these counties to the casual observer seems smaller than usual, and the crop is not a heavy one. As a rule the
straw is short, but it seems to be fairly well
headed. Considering the drouth the oat crop is average. The straw is a fair length crop is crop is well headed, although considerable blight Fall wheat is about
crops in these districts, especially where it is on
summer-fallowed summer-fallowed land and where it was sown
early and got a good top last fall More corn and a smaller acrea.
seems to be the order here as acreace of roots
Province, farmers in the Province, farmers preferring to do their cleaning
with horsa-drawn implements rather than with
the hand hoe Good hired men are scarce, but there is not
the demand for hired help there once was. Immany men, and they never grumble about hours or the hardness of the labor. As As one man was heard to remark about his hayloader, "It never
kicks if I work it after, six, and it will pitch more hay thank it after , six, and it will pitch
mvailable now, There ane more men available now, compared with the ane mork men, to be
done, than was the case a few yearg done, than was the case a few yeara, a.go and
conditions are rapidly changing. There are
whom are drifting out to the farms and making good but there are too many of them that do
not care to the country, and are no more
than than "boarders" when they do go. Farm work
is real work, and the lazy lounger or the grumbling grunter need not apply
There is a great scarcity of good beef cattile. These counties have bbeen scoured by butchers and
drovers, and if they know a man has any kind drovers, and if they know a man has any kind of a beefer on his place they never quit their
calls until such animal or animals go with
them. In some sections where a few years ago them. In some sections where a few years ago
good Shorthorn bulls were kept for service and a good Shorthorn bulls were kept for service and a two or three years of age, no good bulls are to be found, their places having been taken by in-
ferior Holstein males which are used on good grade Shorthorn cows most of the male calves being vealed, while the heifers are raised to add milkers to the nondescript herds.
Pork is one of the main standbys of these
farms, and good prices have made the business firm. It is a mixed farming district, and with anything like favorable weather from now on to ensure good corn and an abundance of roots there
should be plenty of feed for the coming winter. Crops are not heavy, but this district never knows a failure.
The urmy
The urmy worm has made its appearance, but is not taken very seriously by farmers. Reports
of the damage done have been somewhat exaggerat the damage done have been somewhat exagger-

## Killing Bindweed.

Of all the weeds that infest farm land mone is more pernicious and tenacious than the field bindweed or wild morning glory. This weed should not be confused with wild buckwheat, which is so often called bindweed. Any hints which may he of value in fighting this pest are appreciated by all. We have some of the weed at Weldwood, and are ondeavoring to keep it down by clean ing to keen below the ground, and unless it ing to keep below the ground, and unless it is
kept down one canhot hope to kill it. A writer
in Wallace's Fermen in Wallace's Farmer advises that where land is to be put in crop next year it is best to plow
the last week in July; plow deep enough to the last week in July; plow deep enough to get
below all the roots. The drier the ground is when you piow the better the results will be, and the drier it is a week after the plowing, then the
better. But if a wet spell catches you in this
lind if many of the plant of July, then watch, and plow the ground again some time in November or just before the freezing up of the ground for
winter.
And why plow at this time of year? All vegeation has a weak time in its life, and the weak
time in the life of a morning glory plant is whe it has put forth good efforts in a season's growth. When that growth is being made, the starchy substance of the plant is in the top that
is exposed to the air, and if the roots are dis a weak or condition out of the ground, they are in are the easiest killed. Soon after the first of
August, if you examine some and Ang glory, you will find some little, tiny mornor black spots on them. This indicates that the plant has about completed its season's growth. back into the root to winter, and after settling plowing will kill but few of the roots, and if the weather is cool or damp, only the roots left on have plowed patches of morning blory in Jing. I climatic conditions favored me, and the morning
giories did not become thick enough to bother glories did not become thick enough to bother
corn field again for ten yeass.

## Grops Doing Well on P.E.I.

We are having spiendid growing weather Prince Edward Island now. Abundance of mois-
ture and heat is maturing the crop very rapidly. A hig grain crop is assured, barring accidents in beginning, and has grown well the last just
weeks. Will be up to Roots and tubers are doing splendidly with very
little cut worm in evidence. Pastures are their best, and the milk flow heavy. Just now hright. $\begin{aligned} & \text { P. E. I. } \\ & \text { W. SIMPSON. }\end{aligned}$ The following men have been added to the
staff of the Iive Stock Branch of the British kins, B.S.A., Assistant Agriculture; S. H. Hoper: R. I, Ramsay, B.S.A.. Assistant Agriculturand Crop Instructor. the Ontario Agricultural College, while Mr ares ton is a graduate of the Macdonald Agricultural
College.

## Dairy Production in Western

 UntarioWestern strong position of the Dairy Industry 1 figures. The firtst table shows the the following of cneese and creamery butter, $1908-1913$
with the yearly average number of lbs. of mile with the yearly average number of lbs. of mill
required to make 1 lb . of cheese. Year. Ibs. Cheese cheese

| Year. | Libs. Cheese. | Yield. | B |
| :---: | :---: | :---: | :---: |
| 1908 | 34,442,000 | 11.083 | 6,542,000 |
| 09 | 35,766,000 | 11.07 | 6,560,000 |
| 1910 | 33,617,847 | 11.078 | 9,552,000 |
| 1912 | 27,743, ${ }^{\text {a }}$ | 11.14 | 12,986,251 |
|  | ${ }_{21}, 055,581$ | 11.05 | 3,839,730 |
| 191 | 21,055,531 | 11.18 | *18,336,376 |

*y Includes $2,722,739 \mathrm{lbs}$. of butter manufacturé by the several Toronto creameries, at least one
half the cream for which was produced in Easter Ontario. Includes also $932,065 \mathrm{lbs}$. of butter made at the Cheese Factories in Winter. Western
Value of Dairy Products produced in West $\begin{aligned} & \text { Ontario in 1913:- } \\ & \text { Cheese, } \$ 2,679,605.83 ; \\ & \text {; Butter, }\end{aligned} \$ 4,371,569.62$ Milk and Cream sold Direct by Factories, \$241, mate), Powdered and Condensed Milk (Approxi $+\$ 340,342.37$ deducted as value of cream
produced in Eastern. Ontario for creameries. in Eastern. Ontario for Toronto To the above total should be added the value of the dairy butter produced and the value of
milk and cream supplied to the cities and Towns which no accurate record can be obtained.
The total number of cheese factories and
and SRme number of factories were in operation in
1913 but eompared with 1908, 40 more of the $2 \%$ factories made butter instead of cheese
has no control which factors over which the make of milk required to make one number of pounds (B) Sanitary condition Composition of the milk; (D) "Short" or "Long" Fall make. (The Season, of 1913 was remarkable for the "Short" Fall output which accounts for the slightly greater pound of cheese compared with the previous vear.
The "Short" Fall make also affected the total production of the season. The average percent
of fat in the milk, has decreased slightly year for several years yect the yield of cheese per 100 lbs. of milk has remained fairly constant which indicates that the cheese makers are doing good work and securing the best possible yilld
of cheese consistent with the quality required by The writer secured from the Secnetaries of a
numner of cheese factories locater in different
sections of Western Ontario figures from the factorv books relating to production for the past 30 Frars.
From the figures so kindly furnished by the cotarles we compile the following

10 YFAR PERIODS
Average of Average of Dates. Yearly yields (Lbs. milk to perly prices cheese Yearly pricee $1881 \begin{gathered}\text { Make a lb. of } \\ \text { cheese). }\end{gathered} \quad \begin{gathered}\text { per } 100 \text { lbs. } \\ \text { milk }\end{gathered}$ $\begin{array}{lll}1881 \\ 1893 & 10.66 & \$ 0.963 \\ 1894\end{array}$ $\$ 0.891 \quad \$ 0.82$ $\$ 0.1156$ $\$ 1.05$ $\$ 0.1212 \quad \$ 1.09$

These figures clearly indicate a considerable
rise in the value of cheese milk for past 10 years. These figures also indicate a slight rise during the past 20 years, especially the past 10 years
at some factories in the number of pounds of mills at some factories in the number of pounds of mills
required to make 1 ib . of cheese, while at others the yield remains practically the sanie. As pre viously explained this is chiefly due, where an in-
crease occurs, to the slight gradual decrease in
the the average per cent. of fat, and possiblv casein in the milk from year to year, the granting of
it. up beam in shipping weight, and a short fall make, as many of the cheese factories turn to make, as many of the cheese
The oft-repeated statement that "In the early davs of cheesemaking, 10 lbs. of milk only was
required to make a pound of cheose for the sea-
son while in thesp required". requires considerable read instment to
square with the square with the actual facts. Available records
back to 1867 (About the beginning of cheeseback to 1867 (About the beginning of chese
making in Western Ontario) furnish no evidence to indicate that 1 lb . of cheese from 10 lhs. of
milk for the season was ever a common practice. Comparing milk prices for a common practice
1914, for different cheese factories paid about $\$ 1.00$ net per 100 lhs. milk, plus the whey returned, creameries
about $\$ 0.70$ cents per 100 lbs. milk testing $3.2 \%$
fat fat, plus the skim-milk. The powdered milk
factories and two of the milk condensers we
understand paid $\$ 1.06$ per 100 lbs. for milk test-
ind $3.5 \%$ fat and deducted 3 cents per 100 lbs ing $3.5 \%$ fat and deducted 3 cents per 100 lbs.
milk
for each onetenth percent fat the milk tested below 3.5\% (No by-products returned) The average test of cheese factory milk in June
was $3.2 \%$ There ts no reason to suppose the average test at other factories was higher, therefore milk testing $\$ .2 \%$ fat would on the
fabove basis be worth $\$ 0.97$ cents, and $3 \%$ milk
soo $\$ 0.91$ cents per 100 lbs. We understand that
two other milk condensers paid $\$ 1.10$ per 100
that two other milk condensers paid $\$ 1.1$
ahs. milk (No by-products returned).

The Western Provinces are producing greater
quantities of butter each year and taking this along with the present market conditions into
consideration it would seem that so far as west ern Ontario is concerned the required limit of butter production necessary to supply the de mand has probably been reached. Should a sur-
plus develop, production will then swing back to cheese until, a broauction will then of prices and output are
and again reached. F. HERNS

## Chief Dairy Instructor for <br> Western Ontario

## Cattle Out Strong at Winnipeg Industrial.

The Winnipeg Industrial Exhibition furnished some pleasing surprises this year-pleasing hecause they
barns were ratuired to house the increased
entries, and cattle, both dairy and beef, excelled all previous Winnipeg shows. Nearly 600 head of which were dairy cattle, indicating the progress which dairying and mixed farming is mak-
ing in the great west. Of the horses ponies ing in the great West. Of the horses ponies
made the hit in increase of numbers. The made the hit in increase of numbers. The
weather was not good, but new walks and paths
kept the grounds in better condition than weath the grounds in better condition than upon
former occasions. Winnipeg turned out large ormer occasions. Winnipeg turned out large
rowds, but many country people were kept away crowds, but many coun
hy threatening weathe

HORSES.
Horses are not in the demand which they en-
oyed a few years ago, and this may have had some effect on the show, which was not as large as last year. Some excellent individual animals
were in the stalls, but some of the classes did not furnish very keen competition
Aged Clydesdales were few in number, and this breed did not make its usual strong showing. Percherons were not numerous, notwithstandprize money very considerably.
CLYDESDALES.-Clydesdaie
by A. Galbraith, Brandon: C. \& D . McDonald Russell, Man.; J. M. Webster, Cartwright, Man. R. H. Bryce, St. Charles, Man. ; A. Popple,
Louise Bridge; Jas. Adamson, Gladstone, Man.', Louise Bridge; Jas. Adamson, Gladstone, Man.,
I. E. Martin, Condie, Sask.; D. Little, Portage
ia Prairie. Matt Gibb, Morden : J. J. Miller, la Prairie; Matt Gibb, Morden ; J. J. Miller,
Myrtle; Andrew Graham, Pomeroy, Man.; T. Wis-
hart, Portage la Prairie; Fred Brook, Ellin; hart, Portage la Prairie; Fred Brook, Elgin;
Trotter \& Trotter, Brandon: Alex. Steele, Glen-
Prince Ivory, by Black Ivory, a well-made,
compact horse of high quality, won the aged compact horse of high quality, won the aged
stallion class for Webster, closely followed by Galbraith's Proud Edward, by Royal Edward.
Galbraith stood third with McDonaid, by Galbraith stood third with McDonaid, by
Dundonald, and McDonald fourth with Edward, by Pride of Balcon. It was not a strong class. pion in the well-known Charnock, by Criterion,
which won his class for Galbraith; Adamson's Rol Roy, by Burdon Boy, was second, and Bryce
got third on Doune Lodge Revelanta, by Revelanta's Heir.
Two-year-old stallions were headed by Everest Head reserve owned by hartin, which aiterwards was second for Galbraith, and Prince Earnside, by Black.Ivory, third for Trotter. were headed by Sweetheart's Pride, by Lord George, a Miller entry.
The femaile sections were not strong, but furBrood mare with foal: 1, Gibb, on Marchion-
nss, by Roval Favorite; 2, Graham, on Lady Kipess, by Roval Favorite; 2, Graham, on Lady Kip-
ling, by Dunure Kipling; 3, Bryce, on Blossom of
Keith Flower, by Sir Everest. by Ruby Pride, a grand mare ; 2, Wishart, on
Darling Belle; 3. Gibb, on Miss Dee by Baron Darling Belle; 3, Gibb, on Miss Dee, by Baron
O'Dee; 4, Wishart, on Princess of Lucan. In three-year-olds Martin was frst with
Graham second and third, while in two-year-olds Graham was first and second with Porterfieid A few good yearlings came forward, and Pear Guide, by Fyvie Stamp, and owned by Martin,
beat Little's Nina of Maple Grove, and the Bryce \& Brook entries.
Futurity colts were led by Miller's Sweetheart's Pride, while in fillies Pearl Guide was the winner, and she was also champion Canadian
bred female. Sweetheart's Pride won like honors in males. were exhibited by M. C. Weightman, Morden, Man., and Finch Bros., Fargo, North
Dakota; the former winning in yearling stallions and yeld mares, while the Dakota stud took first
honors in the older stallion classes. showing, although fuflks made a very creditabl PERCHERONS.-Wxhibitors: Finch Bros,
Fargo, N. D.; E. O. \& O. O. Ellison, La Moure A. D and R. P. Stanley, Moosomin, Sask.
A class of three aged stallions was headed by
Finch's Killdeer, a very fine quality horse, show
ing good action.
Ellison was second and Finch A great, big three-year-old named Hurra led
for Roberts, with Lubeck second for Stanley Garson, Finch Bros'. good colt, led the two-
year-olds, while Ellison captured the yearling Finch's Killdee

Finch Bros. took all the best of the money in females,
Kernerqu
Light horses and ponies made a strong feature of the entire exhibition, and some real world-
beaters were forward, including King Larigo, a pony which has won in the old Land and at - CATTLE SHORTHORNS.-As usual the Shorthorn was
the "big show" in cattle. It was a show worth
going miles to see, and Harry Smith, of Hay, going miles to see, and Harry Smith, of Hay, Carpenter \& Ross, of Mansfield, Ohio, and J. A
Watt, of Salem, Ont., had herds out competing with the Western breeders, notably J. G. Barron,
Carberry, Man., and H. L. Emmert, of Oak Bluff, Man. Old. Gainford Marquis came back and Gainford Perfection stood junior champion. The old show bull has proven himself a sire as well Awards.-Aged bull : 1 , Emmert, on Gainfor
Marquis; 2, Carpenter \& Ross, on Craighnl1 ; Emmert, on Browndale; 4, Barron, on Huntlywood 8th. Buil, 2 years : 1, Watt, on Lavender
Scott; 2, Carpenter \& Ross, on Maxwalton Renown; 3, Eimmert, on Sittyton Selection. Bull,
senior yearling : 1, Barron, on Fairview Again 2, Watt, on Ideal Gainford. Bull, junior year ling: 1, Watt, on Gainford Perfection $; 2$ and 8
Carpenter \& Ross, on Maxwalton Revolution and Opportunity; 4, Emmert, on Oak Bluff Champion. Senior bull cail: 1, Barron, on Fai-view Jubilee King; 2, Watt; 3 and 4, Emmert. Junior
Bull calf : 1, Carpenter \& Ross; 2, Watt;
B; Barron. Cow, 3 years and over: 1 and 3
Emmert, on Thelma 2nd, and Fair Start 2nd; Carpenter \& Ross, on Maxwalton Gloster ;
Watt, on Jealousy 4 th.
Heifer, 2 years: 1 an Watt, on Jealousy 4th. Heifer, 2 years: Wimple; 2 and 3, Carpenter \& Ross, on Max walton Roan Lady, and Rosebud; 4, Watt, ${ }^{0}$ Barron, on Emma, of Oak Bluff, and Morning
Glory;, 2 , Carpenter \& Ross, on Banner Fortune ; Glory; 2, Carpenter \& Ross, on Banner Fortune ;
3, Watt, on Village Queen. Heifer, senior yearing : 1 and 3, Carpenter \& Ross, on Mina 6th,
and Maxwalton Crown Rose; 2, Watt, on Duches 5th'; 4, Barron, on Fairview Baroness Queen Heifer, junior yearling: 1 and 3, Carpenter
Ross, on Maxwalton Jubilee, and Gloucester 7 th 2, Emmert, on Ury Qupen; 4, Barron, on Morn-
ing Glory 2 nd. Senior heifer calf: 1, Emmert, on Duchess of Lancaster; 2, Barron, on Fairview
Jubilee Queen 3rd; 3, Carpenter \& Ross, on FoxJubilee Queen 3rd; 3, C'arpenter \& R R
glove 3rd; 4, Watt, on Stately Lady.
Thelma 2 nd was senior and grand champion
female, with Mina 6th junior and reserve grand. HEREFORDS.-Up from Montana came the with L. O. Clifford, of Oshawa, Ont., and J. A Chapman, of Hayfield, Man. © The American herd had the best or it in order bulls, while Cliford
youngsters were invincible. Awards.-Aged bulls: 1, Cook on Fairfax 16th;
Chapman, on Beau Albion; 3, Clifford on Re 2, Chapman, on Beau Albion; 3, Cliffoed on Re
finer. Bull, 2 years : 1, Cook, on Beau Perfec tion 23rd; 2, Chapman, on Governor Hadtey Bull, junior yearling : 1 and 3, Clifiord, on Lord Fairfax and Glory; 2, Chapman, on Beau Albion Senior bull calf: 1, Cook. on Panama; 2 and Clififord, on Miss Perfection Lass, and Miss Brae 26th; 3, Chapman, on Gay Lass 5th; 4, Cook, on
Bonnie Lass 7 th. Heifer, 2 years : 1, Clifford, on Miss Brae 40th; 2, Chapman, on Miss Fairfax. champion female, beating llifford's great aged cow, Miss Perfection Lass. Clifiord was first in graded herd and second in junior herd and group
of two calves. He also got the best of the money in the younger female classes.
ABFRDEEN-ANGUS.-J. D. McGregor, of Brandon, Man., and Jas. Bowman, of Guelph, Ont., fought it out once more with their herds of
the best that is in Angus cattle. MeGregor got
both championships, but had to fight all the way win against Bowman's strengthened herd.
Awards.-Aged bulls : 1 , McGregor, on Everaux Harvieston; 2 and 8, Bowman, on Elm Park Wizard, and Young Leory. Bulls, 2 years : 1,
Bowman, on Beauty's Erwin. Bull, senior yearBowman, on Beauty's Erwin. Bull, senior year-
ling: 1, Bowman, on Union Lad. Bull, junior yearling : Bowman, on Union Lad. Bull, Junior nock; 2, Bowman, on Wizard 3rd. McGregor
won the calf classes. Aged cow : 1 , McGregor, won the calf classes. Aged cow: 1, McGregor,
on King of Heather 2nd; 2 and 3, Bowman, on on King of Heather 2nd; 2 and 3, Bowman, on Beauty 4th, and Rosebud 11th. Heifer, 2 years:
1 and 2, Bowman, on Pride 12th and Rosebud
15 hh ; 3, McGregor, on Ella of Morlick. Senior 15 th , 3, McGregor, on Ella of Morlick. Senior yearling heifer: 1 and 3, McGregor, on Eve of
Glencarnock, and Missie of Glencarnock 2nd ; 2, Bowman. on Elm Park Pride. Junior yearling
heifer : 1 and 3, McGregor, on Eileen of Glencarhock and Elcona of Glencarnock; 2, Bowman, on Rosebud 1 the. The calf classes were divided. won on get of sive and on two calves under one DAIRY CATTLLE.
The dairy cattle were shown to a great dissadvantage, the stables being in a very binditin. As far as cattie were concered in Winnipege. A. C. Hallman, of Breslau, Ont, judged Holsteins, Ayrshires and Jerseys, and Dean Ruther-
ford, of Saskatoon, placed Guernseys and Red polls. from the herds of E. C. Shroeder, Moorehead Minn.; L. H. Lipsitt, Strafordville, Ont.; Logan bank, Sask.; H. H. Hancox, Dominion City, Man. and H. W. Hodkinson, Neepewe, Man. The fires three mentioned. got most of the money. In Dickie divided first and second places with Lip sitt generally coming in for third money; while
in femailes Lipsitt took, several firats. Shroeder AYRSHIRES.-Only one Eastern herd, and that a new one, was forward, J. Boden, Danville Que., being the owner. R. Ness, De Winton, River; W. H. Mortson, Fairlight, Sask. and $\mathbf{R}$ H. Bryce, St. Charles, Man., were the other earhibitors, and a good fight, was put up. Ness had the strongest entry and whigh place in every clase. JERSEYS.-G. G. Slade, of Bear Lake, Minn., Bull \& Son, Brampton, Ont., and J. Harper \& Sons, Westlock, Alta., and two smaller exhibitor
E. L. Drewry, Winnipeg, and E. E. Blore, Winntpeg. The first three exhibitors divided the
money fairly evenly with Slade and Bull getting
the the best of it. Slide got both ohampionshipe, but Bull took the greater number of firsts in the
female classes, and captured first on Junior herd. Guernseys and Red Polls, made a much better showing than usual, with good United
herds competing with Western Canada cattle SHEBP
The sheep display was little diflerent from that of last year, with a few new faces at the ring
side. Robert Miller, of Stouffille, Ont., placed the awards. In Cotswolds McGregor \& Bowman of Brandon, met 's. Dolson, of Norval Station the former "etting five reds, two blues and one blues and the female championship.
No Eastern hreeders were out with Lelcesters In Southdowns Rob't. McEEwen, of Byron, IOnt. bitor. McEwen, of Brantford, Ont., took the beet of the money W. T. Trann, of Crystal City, Man., and
Skinner. Besides many firsts McEwen got bothi championships.
As usual Peter Arkell \& Sons, of Teeswater As usual Peter Arkell \& Sons, of Teeswater,
Ont., were there with Oxfords, and although two good Western flocks lined up against them they got the best in everything. was worth while in Hampshires, and Jas. Bowman, of Guelph, Ont. got the best of it in Suffolks, while J. A. Chap
man was the only exhibitor of Dorsets. PIGS
The exhibit of swine was larger than usual, and some went so far as to say that the Berk Very few Eastern pigs went West this year. Sam Dolson \& Son, of Norval, having out a herd o Berkshires, on which they did weil in hot compe
tition. They also won two firsts on pens of tition. Th

## Dry in North York

Editor "'The Farmer's 'Advocate" We socon in Nort York, the dryest for many dry years, but the crope
of different kinds are looking fairly well. Hay was light but of good quality, and is all har vested. Fall wheat was badly winter-killed, and
will be about half a crop. Barley and oats look
well, but are short in straw. Roots are dolng
mall Il considering dry weather. Rain is very
Ich needed and must come soon to help us.
York Co., Ont.

## The Nature of the Army Worm Depredations.

It is hard to concelve what natural conditions have existed to make the depredations of the army worm so extensive this season. They have appeared in various parts of Ontario, in numbers ships the injury done by this pest has been extremely serions.
the worm the worm has probably done more damage than in any other area of similar extent. Here, come has been very discouraging to some fanmers Readers should remember that the army worm dops not march for miles causing destruction right and left. Their nature and life history not permit of that peculiarity. The parent, or low land and here the young are hatched in about six days. The moth io canable of laying geven hundred eggs or more which makes the brood enormous when moths are numerous. Sedges and grass, native to low land, are the natural food of the worm when it hatches from the egg, but when this food supply is exhausted and not till then do they begin to seek out the field crops or higher pasture land and cause the damage which has been so severe this season. There is no doubt but that this same worm exists every year, only in much smaller numbers and
only on account of peculiar natural conditions oniy on account of peculiar natural
have they become so serious in in 1914.
Parasitic insects and fungus disease keep them in check but nature has lost her balance this summer and the worms have triumphed. Furthermore, the habit of the army worm is to feed during the ovening and night time and when food is plentiful to conceal itself during the day. This has led age done became enormous and attracted attention. The young larvae or worms live in this stage for upwards of a month and in many cases never leave the field in which they are hatched. It is not probable that the parent. would deposit her eggs in a grain or corn field when grass land
is near, but they are left in various places and their appearance in a field does not imply that they have come any great distance. Those not having experience with the insect can now understand why they have gone to such a length before Punning acroner
Running across Burford Township for a disknown as the Kenniy Creek, and Whiteman's Flats and on this land, the insect has boen bred most largely. Consequently crops on this soil have suffered as have the neighboring fields, but the infestation has not been general in the most deatructive degree. One man may lose pasture, grass and field crops, while a neighbor would
$a$ few worms in the field and, while some have suffered an extensive loss, the onslaught has not been general. Wm. Milmine has been one of the losers and we cite this one instance to give readers an idea of the nature of their work. Forty acres of pasture were laid
entirely bare of the grass that cattle usually feed upon, while a corn field which had been cultivated twice and hoed once looked as bare as a summer Callow to a representative of the paper on July 24th. A timothy meadow, capable of yielding able to cut, and some which was mowe unprofitable to cut, and some which was mowed yielded
only half a croo.
Thi
hottom which is usually green on that flat land was dry and lifeless, and covered with the excrement of the worms. On
the same day the insects were working in an
oat field, and causing considerable damage. young worm goes to the top of the plant and ing a bare stalk. In the corn, they begin at the top and eat it to the ground but in larger plants they find their way to the heart and $\begin{aligned} & \text { Burford Township was not the only } \\ & \text { Brant }\end{aligned}$ Burford sowning from the army worms, it has County suffering from the army worms,
been reported throughout the County, and Mr r Milmine being Warden of the County Council and knowing the significance of the pest called special meeting. Five hundred dollars were atppropriated to fight the pest and placed in the
hends of the District Representative, Schuyler. Eifiorts are being put forth to curtail the work of the worm, but they still exist in divers localities in diminishing numbers,
Oxford, Middlesex, Kent, Lambton and in fact many Ontario counties report the worm, but the season for their depredations is now drawing to past. The Ontario Agricultural College, and the Dominion Entomological Department have had men in the field to engineer the work, and farmers should remember that these institutions exist and ane always at the disposal of the rural people fo whom they are established. These department have done good nition of the people. The Dist rict Representatives too have been foremost in warding off attacks and demonstrating methods of controlling the worm.
Outbreaks in the near future are problematical. The parasitic insects which destroy the arm worms and keep them in check have been dis or go into the chancing sto thanks to the actions of the tachina and ichneumon flies, the deadly enemy of the army worm

## An Important Conference.

The Rural Teachers' Conference, to be held at the Ontario Agricultural College August 3rd to delegates and others interested in the advance ment of technical agricultural education. The problems. Railway tickents should be purchased on the standard certificate plan. If interested for program, which contains among those Guelph dress the gathering the names of many of professors
Elementary
at
Agricultural
O. Education, MacDougall, author of "Rural Life in Canada" W. W. Foght, Specialist in Rural Education Washington, iD. C.; Taylor Statten; Miss Jessi
Field, of New York; L. H. Newman, Secretary the Canadian Seed Growers' Association, and Br , Jas. W. Robertson, Chairman Royal Commission on Tecknical Education.

## Lethbridge Exhibition.

The horse department of the Lethbridge Exhiowing to the number and quality of the exhibit and the strong feature which was made of the Futurity. The number of horses and cattle brought out were in sympathy with the slowing-down condition of things generally while the hog and Jureur was still king fill
Jureur was still king of the Percherons, but cheron men and stood reserve. In the the Per Bonnie Belle was champion and Mary Black the reserve champion at Calgary, won likg honors at Lethbridge. In Clydesdales, Scotland's Gallant ors the aged stallion class and the highest honsimilar position and Maggie Fleming occupied a On Missie's Prince, Yule \& Bowes won the
on the grounds was Sittyton Rosebud, the twa year-old first-prize heifer. She was exceedingly
smooth and nicely lined. The Doddies and Here smooth and nicely lined. The Doddies and Hero fords made a good showing, while the Ayrshiren,
Holsteins and Jerseys brought out some of the Holsteins and Jerseys
best बtables of the West.

## Why the Army Worm is Here.

## Editor "The Farmer's 'Advocate

The prevaience of the army worm in numbere this year is undoubtedy due, in briee, to.1, suit able climatic conditions lavorable for the de velopment of the insect; and ang lack of parasite caterpillars, which developed from egge laid or ing the previous late summer. In almost ever instance where invasions of this insect have oc curred in Canada, the injury has been done by the brood of oaterpillars which appeared in Jul from eggs laid by moths which developed from
Dry weather is
Dry weather is certainly favorable to the life ing in 1918 and 1914 were specially suitable to abnormal increase in numbers of such an insect. In 1896, the previous army worm year the sum mer was dry, as was also the season of 1895 outbreak, there is no evidence to show the these useful insects are not now busily at tha In fact, investigation indicates a very large per centage of parasitism, particularly by the tachin fy, winthemia.- Other parasites are also doin splendid service--ARTHUR GIBSON, Chief As sistant Entomologist, Ottawa.

## Stallions Enrolled.

The stallion year for 1913-14 ends with the 31st of July. During the stallion year 1912-18 ${ }_{2}$ there, $1913-14$ there were 3,150 enrolled, being an increase of 400 over the previous year. All stallion owners who have not enrollipd days to do so, as after August 1 st it will days
late. lions enrolled in the eleven largest horse of countie in the Provinc
number of stallions enrolled

| County. |  | 1913. | 4 |
| :---: | :---: | :---: | :---: |
| Bruce, |  | 103 | 114 |
|  |  | 108 | 121 |
| Huron, |  | 112 | 132 |
| Kent, |  | 130 | 136 |
| Lambton, | .......... ...... | 113 | 129 |
| Middlesex, |  | 128 | 155 |
| Ontario, |  | 101 | 106 |
| Perth, |  | 81 | 101 |
| Simcoe, ........... |  | 139 | 155 |
| Wellington, |  | 104 | 114 |
| York, ..... |  | 119 | 144 |

## Drouth in Frontenac

Editor "The Farmer's 'Advocate':
Frontenac County is suffering from extremely hot and dry weather, and a very light crop of hay has been safely, gathered in. Our land is
too light for dry seasons. Early potatoes and the barley for dry seasons. Early potatoes and oat crop has looked well until the last few days Fall wheat is a good crop, but the acreage is very wait Sor sio corn in some places has decided tocultivated it is hut where it has been properiy ing. Pasture fields on higk and rocky land, or which our county has rather more than its barren, and the milk flow has gone down 30 per cent.
Frontenac Co

## Toronto, Montreal, Buffalo, and Other Leading Markets.

| Toronto. |  | City. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| the Union Stock - yards, | ${ }_{\text {Carstle }}^{\text {Cat }}$ | 610 | $\begin{array}{r}305 \\ 3440 \\ \hline 105\end{array}$ |  |
| est Toronto, on Monday, July 27th, | Hogs | 154 | 7,705 | 7,8, |
| numbered 91 carloads. Cattle prices | Sheep | 397 | 3,309 | 3,7 |
| re stronger for best grades. Choice |  | 132 | 963 | 1,0 |
| ers, \$8.50 to \$8.75: good, \$8.25 | The total receipts of live stock at the two markets for the corresponding week of 1913 were |  |  |  |
| . 0 medium, \$7.50 to |  |  |  |  |
| ers, $\$ 8.15$ to $\$ 8.35 ;$ common, lig |  |  |  |  |
| ers and heirers, $\$ 6.75$ to <br> to $\$ 7.25 ; ~ c o w s, ~$ |  |  |  |  |
| 50 to \$7; stockers, $\$ 5.50$ to $\$ 6$. |  |  | , | 31 |
| milkers and springers, $\$ 45$ to \$100; v | Cat | 708 | 6,019 | 27 |
| lves, $\$ 6.50$ to $\$ 11$. Sheep, $\$ 3.50$ | Hogs |  |  |  |
| 25; yearlings, \$7 to \$8; lambs, \$9 | ${ }_{\text {Sheep }}^{\text {Calves }}$ | 264 |  |  |
| per cwt. Hogs, $\$ 9$ fed and wa |  | 266 | 996 |  |
| d, $\$ 8.75 \quad$ f. o. b. cars, and $\$ 9.25$ |  |  |  |  |
| Review of last week's mark | The City and Union Stock - vards fork at |  |  |  |
|  |  |  |  |  |
|  | 2,677 |  |  | $\text { s, } 167$ |





## "Safety First"


The Bank of Nova Scotia



to $\$ 8$; and inferior eastern, rough calves sold from $\$ 5.50$ to $\$ 6.75$ per cwt.
Shieep and Lambs.
Sheep, light ewes sold at $\$ 5.50$ to $\$ 6.25$; heavy ewes and
cams, $\$ 3.50$ to $\$ 4.50 ;$ yearling lambs at $\$ 7$ to $\$ 8$ per cwt.; spring lambs sold
trom $\$ 9$ to $\$ 11$ per cwt., and light feeding lambs sold down to $\$ 7.50$ per cwt.
Hogs. -Receipts being moderate prices Hogs.-Receipts being moderate, prices
increased intil at the end of the week selects, fed and watered, sold at $\$ 9.10$,
and $\$ 8.75$ f.o.b. cars; and $\$ 9.40$ weighed and cars.

BREADSTUFFS
Wheat.-Ontario, No. 2 red, white or
enixed, 98c. to 99 c. ., outside; Manitoba. No. 1 northern, $94 \frac{1}{6}$ c., track, bay pointss No. 2 northern, 93 c. , bay ports.
Oats.-Ontario, new, white, 39 c. to 40 c. ., outside; 41 sfc , to $42 \frac{1}{2} \mathrm{c}$.,
track, Toronto; Manitoba, No. $2,42 \mathrm{c}$, No. 3,42 çc., lake ports.
Rye.-Outside, 63 c . to 64 c . Peas.-No. 2, 98c. to $\$ 1.03$, outside.
Buckwheat.-No. 2, 88c. to 90 c., side.
Corn.-American, No. 2
yellow, $76 c$., track, Port Colborne.
Barley.-For malting, 56 c. to 58 c ., out-
side. Manitoba barley for feed, 51c., track, bay ports.
Rolled Oats.- $\$ 2.25$ per bag of 90 pounds.
Flour.-Ontario, $90-$ per - cent, winter-
wheat patents, $\$ 3.60$ to $\$ 3.65$, bulk, wheat patents, $\$ 3.60$ to $\$ 3.63$, bulk,
seaboard. Manitoba flour-Prices at ond patents, $\$ 5.10 ;$ in cotton, 10 c .
more; strong bakers', $\$ 4.80$, in jute. HAY AND MILLFEED.
Hay.-Baled, car lots, track, \$14 to $\$ 14.50 ;$ No. 2 , $\$ 1$.
Straw.-Baled, in car lots, $\$ 8$ to $\$ 8.50$.
Bran.-Manitoba, $\$ 25$, in bags, track,
Toronto; shorts, $\$ 26$; Ontario bran, $\$ 23$, Toronto; shorts, $\$ 26$; Ontario bran, $\$ 23$,
in bags; shorts, $\$ 26 ;$ middlings, $\$ 28$. hides and skins. No. 1 inspected steers and cows, 14 c .
to $14 \frac{1}{3}$ c.. No. 2 inspected steers and
cows, 13 c .; city hides, flat, 14c.; country hides, cured, 15c.; calf skins, per 1t.,
16 c .; lamb skins and peltes, 35 cc . to 5 coc .;
horse hair, 37 c . to 38 c . horse hides, horse hair, 37 c . to 38 c .; horse hides,
No. $1, \$ 3.50$ to $\$ 4 ;$ tallow, No.
1, per it., $5 \frac{1}{c} \mathrm{c}$. to 7 c .; wool, unwashed, 1. per Th., $5 \frac{1}{c} \mathrm{c}$. to 7 c .; wool, unwashed,
coarse, $17 \frac{1}{2}$.; fine, unwashed, 19 c .; wool,
washed, combings, coarse, 26 c.; wool,
washed, combings, washed, combings, fine, 27 jc .
COUNTRY PRODUCE.
Butter. - Receipts were liber priceser. - Receipts were liberal and
to 26 ere.; creamery pound rolls, 24 c .
tolids, 24 c .; separator
dairy, 22 c.


Beans.-Imported, hand - picked, \$2.40;
Canadians, hand-picked, $\$ 2.40$; primes, $\$ 2.25$ per buehel. Potatoes.-Old potatoes are off the markat, but new Ontarios are selling at
$\$ 1.50$ per bag; and, American at $\$ 4$ to $\$ 1.50$ per bag;
$\$ 4.25$ per bbl.
Poultry.-Live weight: Spring chickens, 20c. to 25 c . per 1t.; hens, 14 c . per
mb ; ducks, old, 10c. to 12c. ib. ducks, old, 10c. to 12 c . per
spring ducks, 14 c . to 16 c. per mb .; tu keys, 16c. to 22c. per io
FRUITS AND VEGETABLES,
Receipts for both truit and vers Receipts for both fruit and vegetables
for the past week were large. Prices for the past week were large. Prices
by the 11-quart basket unless otherwise specified.
Blueberries, $\$ 1$ to $\$ 1.25$ per basket;
therries, red, 45 c . to 60 c . per basket; currants, red, 40 c . to 50 c . per basket black currants, $\$ 1$ to $\$ 1.25$ basket gooseberries, 35 c . to 65 c . basket; lawton
berries, 15 c. to 20 c . quart. adian, 40 c . to 45 c .; raspberries 11c. par box; watermelone, 30 c . to 45 c . Beets, 15 c . to 25 c . per dozen bunches; beans, 20 c . to 25 c . basket; celery, 85 c . to 40 c . per dozen; corn, $\$ 1.50$ to $\$ 1.75$ egg plant, $\$ 1.25$ basket; onions, green, Canadian, 40 c . basket; lettice, head, $\$ 1.50$ per box; parsley, 30c. per basket;
peas, 35c. to 40c.; basket; peppers, green, 40c. to 60c. basket; turnips,
white, 35 c . basket; tomatoes, 45 c , to white, 35 c. basket; tomatoes, 45 c . to
60c. basket; vegetable marrow, 30 c . to 60c. basket;

## Montreal.

Supplies of cattle continued limited in
the local market. This is no doubt the local market. This is no doubt
largely due to the hot weather which largely due to the hot weather which
prevailed and to the fact that this is the holiday season and a large number of people are out of town. Consump-
tion, in any case, is light, this being partly brought about by the very high prices which prevail. A few choice
steers were reported at gc. per lb., but it may be taken for granted that there was very little at this price. Choice lb., and it was none too easy to get
this figure and the stock had to be good. Fine was quoted at $8 \frac{1}{c} \mathrm{c}$. and good at 7 g c. to 8 c . with some stoek at 7 th c. pèr
lb . Medium was 6 gic. to 74 c . and com mon ranged all the way down, to $4 f^{\prime} \mathrm{c}$.
and 5 c . per lb . for bulls and stocker and 5 c . per lb. for bulls and stocker
heifers. There was a very fair demand for lambs and prices were fractionally higher. Sales were made at $\$ 4$ to $\$ 6$ to 4 c c. per lb. Calves were in gtol dc-
mand also, and prices ranged from $\$ 8$ to \$5 each for common and up to $\$ 12$ each for good. Hogs were $9 \frac{1}{4} \mathrm{c}$. to 9 sic .
per lb. for light and 8 c . to $8 \frac{1}{\mathrm{c}} \mathrm{c}$. for
heavy.
Horses.-The market for horses was very dull and there has been no change time past. Supplies were light so that the tone of the market was firm.
Dressed Hogs.-Abattoir-dressed, freshkilled hogs were fairly firm in price, at Eggs.-There was a siightly firmer tone to the market for select eggs.
Ordinary stock was unchanged. The quality of the stock was affected by the heat, and local merchants resolved
amongst themselves to buy on quality only. Single cases of selected stock ceipts, according to quantity, ranged from $22 \frac{1}{2} \mathrm{c}$. to 24 c .; single cases of No. 1
candled stock were 23 c . and No. 2 stock was 20c. to 21c. per doz.
Syrup and Honey.-A little new honey was offe, id and there was some demand. Prices were 13 c . to 13 c c. per lb . Ror
white clover cor honey, 10 c . to 11 c . for extracted; $12 \frac{1}{\mathrm{c}} \mathrm{c}$. to 13 c . for dark
comb and 6c. to $7 \frac{1}{3} \mathrm{c}$. for extracted. Syrup was dull at 55 c . to 80 c . for 7 cc c. to 8 c .
Butter.-The tone of the market for creamery was firm. Receipts continued much lighter than those of a year ago on prices. of late, there has been some enquiry from Vancouver, though it is not
known whether business has becn closed known whether bus stock was quoted at 41 c . to $24 \frac{8 \mathrm{~g} \cdot}{} \mathrm{c}$. per lb . and fine at to
c. less while seconds sold around 23 c . er lb. Manitoba dairy butter was 20 c
21c. per lb. and Ontario 21 . c .

Cheese. - The market for cheese showed large and are, likely Offerings were not the grass improves. Prices were 18c. to 13 tc . per ib. for Western colored and
white, and 12 cc . to 122 c , for Eastern white, and $12 \frac{\mathrm{c}}{} \mathrm{c}$. to $12 \frac{\mathrm{f}}{} \mathrm{c}$. for Eastern colored and Grain.-There was a fair demand for
oats in car lots and prices were 44c. aats in car lots and prices were 44c
per bushel for No. 2 Canadian western. and 43 c . for No. 8 and 424 c . fot No. 2
Flour--The demand for flour has been limited for some time past. Prices have continued steady and there was still not likely to turn out as large a crop as a year ago, but the shan in price, as follows: First patcots $\$ 5.60$, seconds at $\$ 5.10$ and strong bakers at $\$ 4.90$ per bbl. Ontario pat-
cnts, $\$ 5$ to $\$ 5.25$ per bbl. and straight rollers at $\$ 4.70$ to $\$ 4.75$ per bb1. Mani
arres. 1 in
Feed.-Sales of bran were still being
made at $\$ 23$ per ton, in made at $\$ 23$ per ton, in bags. Shorts
sold at $\$ 25$ and middlings at $\$ 28$ per son. Mouille was in fair demand and prices were \$28 to \$29 per ton for mixed and $\$ 30$ to $\$ 32$ for pure.
Hay,-Supplies
Hay.-Supplies of hay seem to be on the light side. Prices were firm but very
zitis cianged, being as follows Cavfots of No. 1 hay, on track, $\$ 17$ to $\$ 1750$ extra good No. 2 hay; $\$ 16$ to $\$ 16.50$; No. 2 hay, $\$ 15$ to $\$ 15.50$.

## Buffalo.

Excessive receipts at Buffalo the past
week had the effect of depressing prices week had the effect of depressing prices
substantially, shipping cattle |selling from 25 to 40 cents lower, with butchering graces mostly a quarter. There were
something like seventy cars of Canadians and they ran mostly to better weight steers, supply in this division figuring around sixty-five cars. Excepting a few
toppy loads of Canadians, which sold from $\$ 9.25$ to $\$ 9.80$, most of the offerfrom $\$ 9.25$ to $\$ 9.80$, most of the oflertake hold of these, preferring the natives, most of which were pretty well
cleaned up, top weighty steers selling at \$9.50. Trade at western parkets for the preceding week closed up very bad and weighty steers and this bad finish for the week, together with the fact that the beef trade was reported in anything but good shape in the east and the further reason that Jersey. City had quite a few
pretty good Virginia cattle, made it an up-hill pull for sellers. All of the Canadians had not been sold on Monday and during the week some were taken for Philadelphia but even with this outlet,
some of these Canadian shipping steers some of these Canadian shipping steer were still in first hands at the cose
the week. Cow stuff sold mostly quarter lower, canners showing as muek
as half a dollar decline. Stockers and feeders brought barely steady prices supply of half a dozen loads running mainly to the little Montreal stuff, some Fleshy and fat bulis brought extout steady prices, some fancy ones running up to $\$ 7.50$ to $\$ 7.65$, but thin sausage showed about a steady level, some good Canadian cows selling especially satis factory. It was the largest delivery of
Canadian cattle: since the tariff was removed and an excessive run from that
quarter was no doubt caused by the market the preceding week being especial ly high on these, in fact it was about the highest market on Canadians within east are looking for strictly prime steers now, the medium finished grades being neglected, when the best are offered. Receipts the past week totalled 6,650 head, as against 4,800 for the preceding
week and as against 4,700 head for the week and as against 4,700 head for the
corresponding week last year. Quotations: Choice to prime shipping steers Fair to good, $\$ 8.60$ to $\$ 8.90$; plain and coarse, $\$ 8.25$ to $\$ 8.40$; Choice to prime
handy steers, $\$ 8.40$ to $\$ 8.85$; Fair to good, $\$ 8.25$ to $\$ 8.35$; Light common $\$ 7.50$ to $\$ 7.85$; Yearlings $\$ 8.25$. to G9.00; Prime fat heifers, $\$ 8.00$ to $\$ 8.25$, Light, $\$ 7.00$ to $\$ 7.75$ Best heavy fai cows, $\$ 7.00$ to $\$ 7.25$; Good butchering cows, $\$ 8.00$ to $\$ 6.75$; Canners and cut-
ters, $\$ 3.40$ to $\$ 5.00$; Best feeders, $\$ 6.90$
o \$7.25; Good, $\$ 6.63$ to $\$ 6.85$; Best good, $\$ 5.50$ to $\$ 6.00$; Best bulls, $\$ 6.75$ to $\$ 7.50$; Good killing builk, $\$ 6.25$ to $\$ 6.75$; Stock and medium buhe, $\$ 5.00$ $\$ 6.00$; Best milchers and springers, $\$ 75.00$ to $\$ 90.00$; Good, $\$ 55.00$ to $\$ 65.00$; Common, $\$ 35.00$ to $\$ 50.00$. Hogs.-Very uniform hog market last
week, prices being held within a fifteen cent, prices being held within a frem spread being from $\$ 9.50$ to $\$ 9,65$. Heavy hogs were very dull the latter part of the week and were ot wanted, unless the prices were tem to fifteen cents under: grades weighing
around 200 lbs . Around twelve decle of Canadians the past week. Monde six d.cks moved at $\$ 9.30$, and Thursday five decks brought $\$ 9.45$ to $\$ 9.50$. Roughs $\$ 8.00$ to $\$ 8.15$, stags $\$ 6.50$ to \$7.50. Receipts: The past week, 25,-
120; preceding week, 28,960 ; year ago, 120; preceding week, 28,960; year ago,
27,040 . 27,040.
Shzep early every doy . Le past week, Mondey general range on tops being from $\$ 8.00$ to $\$ 8.25$ and before the week was out $T_{T}$
choice ones sold up to $\$ 8.75$. Culls the choice ones sold up to $\$ 8.75$. Culls the arst part of the week sold from $\$ 6.50$ 37.00. Handy sheep were scarce and strong, while heavy ones were slow. Best wethers sold at $\$ 6.90$ - to $\$ 6.10$ and owe range was from $\$ 3.50$ to $\$ 5.00$, as to
welght, heavy ones $\$ 8.50$ to $\$ 4.00$, K . weight, heavy ones $\$ 3.50$ to $\$ 4.00$, K. M ceipts : Past week, 7,600; previous week,
8,400 ; year ago, 12,200 . Calves.-Top veals the first four daye the past week sold at $\$ 10.75$ to $\$ 11.00$, and on Friday, under a red-hot eastern demand, prices were jumped seventy-ive cents,
$\$ 11.75$. Culls $\$ 10.00$ down and commion to good grassers $\$ 5.00$ to $\$ 6.50$. Two offered the latter part of the week and have not been sold/ at this writing. Receipts the past week, 8,825; previous week, 2;475; year ago, 2,150.

## Chicago.

Cattle--Beeves, $\$ 7.60$ to \$10; Texae teers, $\$ 6.40$ to $\$ 8.00$; stockers and 1000 to $\$ 9.25$; calves, $\$ 7.75$ to $\$ 11.25$. Hogs.-Mixed, $\$ 8.45$ to \$9; hoavy, 38.8 . to $\$ 9$; rough, $\$ 8.35$ to $\$ 8.55$; pigs, 87.75 o $\$ 8.90$; bulk of sales, $\$ 8.65$ to 88.90 . Sheep and Lambs.-Sheep, native, $\$ 5.15$ Lambs, native, $\$ 6$ to $\$ 8.05$.

## Cheese Markets

Brockville, highest offer, $12 \frac{1}{c} \mathrm{c}$., was roand 12 5-6c. offered for white; Vankleels
Hill, ${ }_{12} 7$-16c.; Peterboro, 12 $11-16 \mathrm{c}$. and 12 fc .; Woodstock, colored, 121 c . Madoc, 12 12.; Wood 16 c

## Trade Topic.

VIA GREAT LAKEATION TRIP At this season of the year whon so many, are inlonning their, vacation tifle: arises-What could be more delightsula than a Great Lakes trip, where the air is pure, the sun shines 1 end cool refreshing breezes blow
Tieoll samngs weekly from Port Mond for Sault ste. Marie, Port Arthur leaves Toronto 12.80 p.m. Bailing days, making direct connection.
If -ou are contemplating a trip, don's let thit, slip your memory, Canadiaa Pacific Steamshipe make the fastest time, have the best of accommodation, and the reservations on trains particutars and reservations on trains and whips,
overy Canadian Pacific Ticket oflice

## Hog Special

In order to encourage the raising of hogs suitable for bacon for the English are ronto Fat-stock Show, Union Stockyards, Toronto, Dec. 11-12, 1914, tor a carload of fifty bacon hogs, 170 to 200 third, \$40. Our Canadian hog-producere should appreciate this kind of encouragement, and lend a hand to retain Canada' which it has a bog country, for
which it has long been femous.


Jewel-Weed. By Florence Earle Coates. Thou lonely, dew-wet mountain road Traversed by toiling feet each day, What rare enchantmont maketh thee Appoar sa gay ?
Thy aentinels, on either hand O'er the Ramiliar shrubs that greet -The waytarer
But hero's a mágic cometh nowA Joy to gladden thee, indeed This pasionate
The jewel-weed.
That now; when days are growing drear An summer drame that she is old Hangs out a myrial
Of mottled gold

Thine only, these, thou lonely road
Though hands that take, and naugh restore,
Rob thee of other treasured things
a fairy, cradled in each bloom,
To all who pasi the charmed spot Whispers in warning :-"Friend, admire,

Lenve me to blossom where I sprung A foy untarnishod shall $I$ seem;
Pluck me, and you dispel the charm Pluck me, and you dispe,
And blur the dream 1" -Literary Digest.

## Browsings Among the

 Books.the lantern-bearers.
(From Across the Plains," by R. Stevenson.)
It was a sport peculiar to the place,
and indeed to a. weal or so of our two montha' holiday there." Maybe it still Aourighes in its native spot; for boys
and their pastimes are swayed by periand hinir pastimes are swayed sy peritops and marbles reappear in their due season, regular; like the sun and moon; and the harmless art of knucklebones has
geen the fall of the Roman Empire and seen the fall of the Roman empire and
the rise of the United states. It may atill flourish in its native spot, but nowhere else," I am persuaded; for I tried myyelf to introduce it on Tweedside, and
was deitioated lameentably; its charm being Was ditsated lamestably; its charm being quite be exported
not be exported.
The idle mantior of it was this Toward the end of September, when
schooltime was drawing near and the nights were already black, we would be gin to sally from our respective
each equipped with a tin bullsey laneach equipped with a tin bull- Beye lan-
tern. The thing was so well it had worn a rut in the commerce of due time, began to garnish their windows with our peculiar brand of lumin-
ary. We wore them buckled to the ary. We wore them buckled
waist upon a cricket-belt, and over them, such was the rigor of the game, a but
toned top-coat.
They smelled noisomely of blistered tin; they never burned aright though they would always burn our
fingers; their use was naught; the pleasfingers; their use was naught; the pleas-
ure of them merely fanciful; and yet a boy with a bull's-eye under his top-coat
asked for nothing more. The fishermen used lanterns about their boats, and it was from them, I suppose, that we hal
kot the hint; but theirs were not bull's eyes, nor did we ever play at being
fishermen. The police carried them at fishermen. The police carried them ad
their belts, and we had plainly copied them in that; yet we did not pretend to to
be policemen. Burglars, indeed, we may
have had some haunting thought of an
when lanterns were more common, and to certain story-books in which we had found them to figure very largely. But thing was substantive; and to be a boy thing was substantive: and to be a boy
with a bull's-eye under his top-coat was good enough for us.
When two of these asses met, ther would be an anxious "Have you got your lantern?" and a gratified "Yes ! ful, too; for, as it was the rule to keep our glory contained, none could recognize a lantern-bearer, unless (like the pole-
cat) by the smell: Four or five would cat) by the smell. Four or five would man lugger, with nothing but th thwarts above fhem-lor the cabinin was usually locked, or choose out some hollow of the links where the wind might whistle overhead. There the coats would be unbuttoned and the bull's-eyes dis under the huge windy hall of the night and cheered by a rich steam of toasting tinware, these fortunate young gentlemen would crouch together in the cold sand of the links or on the scaly bilges of the ishing-boat, and derighe is me that I may not give some specimens-some of their foresights of life, or deep inquiries into the rudiments of man and nature, these were so fiery and so innocent, they
were so richly silly, so romantically were so richly silly, so romantically
young. But the talk, but a condiment; and these gatherings themselves only accidents in the career of the lantern-bearer. The essence of
this bliss was to walk by yourself in the this bliss was to walk by yourself in the black night; the slide shut, the top-coat
buttoned; not a ray escaping, whether to conduct your footsteps or to make your glory public: a mere pillar of darkness
in the dark; and all the while in the dark; and all the while, deep down in the privacy of your fool's heart,
to know you had a bull'seye at your kinowledge.
It is said that a poet has died young in the breast of the most stolid. It (somewhat minor) bard in almost every case survives, and is the spice of life to his possessor. Justice is not done to
the versatility and the unplumbed child the versatility and the unplumbed child-
ishness of man's imazination. His life from without may seem but a rude mound of mud; there will be some golden chamber at the heart of it, in which he dwells delighted; and for as dark as his pathway seems to the observer, he will
have some kind of a bull's-eye at his belt. near the quick of life, -the fable of the
monk who passed into the woods, heard a bird break into song, hearkened for a trill or two, and found himself at his return a stranger at his convent gates; one to recognize him. It is not only in
the woods that this enchanter carols, though perhaps he is native there. He sings in the most doleful places. The days are moments. With no more aphave evoked him on the naked links. All life that is not merely mechanical is spun out of two strands,- -seeking for
that bird and hearing him. And it is just this that makes life so hard to
value, and the delight of each so incommunicable. And it is just a knowledge of this, and a remembrance of those for-
tunate hours in which the bird has sung when we turn to the pages of the realist. There, to be sure, we find a picture
of life in so far as it consists of mud lears, that which we are ashamed to re
whether we forget; but of the note of that time-devouring nightingale we bear no news.
Say that we came (in such a realistic romance) on some such business as that of my lantern-bearers on the links, and
described the boys as very cold, spat upon by flurries of rain, and drearily surrounded, all of which they were; and their talk as silly, which it certainly was. To the eye of the observer they ed; but ask themselves, and they are in the heaven of a recondite pleasure, the ground of which is an ill-smelling lantern.
For, to repeat, the ground of a man's joy is aftex hard to hit. It may hinge
at times upon a mere accossory, like the at times upon a mere accossory, like the
lantern; it may reside in the mysterious inwards of psychology. It has eo littl bond with externals that it may even
touch them not, and the man's true life, touch them not, and the man's true life, for which he consen's to live, lie together in the field of fancy. In such a
case the poetry runs underground. The case the poetry runs underground. The
observer (poor soul, with his documental) is all abroad. For to look at the man is but to court deception. We shall see the trunk from which he draws his nourishment; but he himself is above and hummed through by winds and nested in by nightingales. And the true realism was that of the poets, to climb after him like a squirrel, and catch some glimpse of the heaven in which he lives. And the true realism, always and everywhere,
is that of the poets: to find out where joy resides, and give it a voice lar be yond singing.
For to miss the joy is to miss all. In the joy of the actors lies the sense of any action. That is the explanation;
that the excuse. To one who has the secret of the lanterns, the scene upon the links is meaningless. And hence the haunting and truly spectral unreality of realistic books. In each we miss the personal poetry, the enchanted atmosphere, that rainbow work of fancy that
clothes what is naked and seems to enoble what is base; in such, life falls dead like dough, instead of soaring away
like a balloon into the colors of the set; a balloon into the colors of the sunno man lives in the external truth among salts and acids, but in the warm, phantasmagoric chamber of his brain, with
the painted windows and the storied

The Halifax GreenMarket

## (By) Blanche Dewar)

## The Saturday morning green-market at

is no building; the country people calmly well as of two or three blocks the principal streets, while the citizens hake no protest, although they often
have to resort to the middle of the road There are no stalls or benches, but in front of each seller, neatly arranged in
piles, are to be found the products of their market gardens, consisting of pota-
toes, turnips, cabbages, parsnips, cauliflowers, beets, raddishes, beans, and peas; small fruits, such as strawberries,
raspberries, blueberries, blackberries, while here and there potted plants, etc., bunches of bright flowers give color to Sauntering along through the crowd of
buyers and sellers, buyers and sellers, one comes across col-
ored people from Preston, banked around with ferns in rustic baskets, berries in brooms made out of twigs (for out-of-
door use), dyed grasses, wild flowers door use), dyed grasses, wild flowers,
and, in fact, anything from the woods
happy, and apparently enjoy themselves mmensely, judging by the continual chat ter and loud laughter, often at the ex These derkisen These darkies are descendants of relugee
alaves, of which several hundred brought here at the close of the were can war of 1812-1814, and settled in the township of Preston, on the eastern side Dartmouth harbor, about five miles trom market in an ox cart (frequently to the Preston automobile). In the winter these often look very gay, covered with old and brightly-colored patch-work quilts $t_{0}$ protect them from the cold whilo the A little further on we journey. A little further on we loiter in frons "squatting" on the sidewalk, surrounded by the most tempting array of their own handiwork. Baskets of all sizes, color and shapes, from the large shopping bas ket, to the small, dainty one, for fancy giving forth a pleasing fragrance; gaily embroidered moccasins; photograph treme in the shape of snow-shoes; miniature canoes with miniature Indians paddling: and reproductions of the bows and ar rows with which the Indian did his hunk be purchased for a trifle. It would bo hard to recognize in these harmless Micmacs, who ask you in the soft volec peculiar to their race, "You buy me basket ?" the warrior who terrilled the If in leeso ou will a certain corner where big, attracted to make your mouth water, and you almo envy the colored lady who is making her lunch off one, sans plate, fork, etc., or the small boys who are having such Across the street you will see French women from Chezetcook, a French village near Halifax, with boxes of big, brown eggs, and crocks of lresh butter for sale, prices, what you might think exorbitan prices, but Mea of the crowd wending his way in and out ous Italian peddler be found the ubiquiticountry people to part with some of their newly-earned money.
The costumes many and varied, from the woluminous skirts which look as though they were relics of the hoop-skirt period, to the hobble gowns of the present day. All have, however, sapen more or less service. concert is given every months a band by the Royal Canadion regiment, on the old parade grounds, just a short distance from the market, which is a great treal to the country people, who have few op-
portunities of hearing such music. It popular rendezvake the green-market a popular rendezvous; in fact, it is con-
sidered quite the correct thing, armed with a basket, to go to market Saturday morning, ending up at the parade grounds

## Vacation is Here

## School days and study days

The short days and lon
And a of gladness
They swiftly came and swiftly went
Lessons a passing train.
Vacation comes again.
The school-room door is open,
It is the end of June.
robin in the pine tree
Sings a merry tune.
Dull days and work days,
Study days are o'er,
The path leads to the hillside

## Hope's Quiet Hour.

## Rejoice in Goodness

 Let Thy saints rejoice in goodness.-2This is one petition of the great praye hich Solomon offered to God when he dicated the Temple. Did you ever conaider the many texts in the Bible about loy, noticing how constantly the vurious riters refer to God and His worgs as the source of abiding gladness? "I will rejoice in Thy salvation, is a phras, hadow e rejoice," he song of a heart at peace with God It is one sign of spiritual health to re joice in goodness, as it is a sign of physical health to enjoy the everyday work, which is much pleasanter tha aving nothing to do but amuse one's self.
eople do not always rejoice in good ness. Jeremiah sternly rebukes his people, saying : "When thou doest evil, then thou rejoicest." St. Paul says she rejoiceth not in iniquity, but rejoicth in the truth.
If a man does not rejoice in goodness, ut finds his pleasure in evil things, he strange fact that we can learn to like things which are positively unpleasant to us. 1 used to dislike tomatoes, but
cultivated a taste for them-as many cultivated a taste for them-as many
other people have done. It is a startling fact that our tastes and distastes are largely of our own making. One
person is very fond of reading sentinental stories, while another person dis likes them. One person thinks that any
kind of "church work" is an unmitigated ore, while another person flings himsel into it wholeheartedly and finds it in Censely interesting. Of course, tempera ment has much to do with our likes and
dislikes-one loves music and another painting; one prefers to read and another delights in activity-and yet it is true iking for have the powthing. It is no onough to pray, with Solomon: ", Le Thy saints rejoice in goodness." We
must actively cultivate a taste for goodmust actively cultivate a tas
ness by our everyday habits.
Our physical and spiritual senses ar governed by similar laws. By constantIs cultivated, until the listener learns t rejoice in compositions which would have fore. A blind person cultivates his other senses until his powers of feeling bearing, and smelling, bring him infor great measure. A woman who keeps he house. meat and heantiful is keined by disorder, while another woman feels no discomfort, although her house is untidy her tablecloth crumpled and spotted, an loices over the neat rows. One man re vegetable garden, while another finds his satisfaction in the foul air and languag of habit. We can learn to like what we do constantly. Darwin devoted himself to science so persistently that he lost entirely his
taste for poetry. One who reads notheng but trashy books, or the daily newe paper, is slowly destroying his power appreciating and assimilating the words to His disciples were full of encouragëment as well as warning, when He told them that it was given to them to know the mysteries of His kingdom, while chosen to listen to Him and follow His leaching and example, therefore they should gain still more of His spirit:
"For whosoever hath, to him shall be given, and he shall have more abunhim shall be taken away not. from

By constant practice the leader of an orchestra can detect a false note in-
otantly, through all the various sounds

THE FARMER'S ADVOCATE.
the instruments surrounding him. In partment at Eaton's in the ribbon deglance whether. she can match your samthing. Those who spend $\quad$ ractice makes in every the service of God, find increasing years in hat service, and the smallest act of doliberate disobedience to conscience makes hem uncomfortable. Those who throw away years of life in selfishness or vice, They think that church services things ous, and the Bible has no inspiration or them. Their idea of having "a good time" is very different from that of the man or woman devoting life to the serPerhaps you are struggling to live a Christ-like life of service, yet find no pleasure in it. Then take courage and persevere, you will find true and lasting child who finds no pod. You are like a child who finds no pleasure in learning
to read. It is hard work and deadly dull. How can he know the pleasure which will flow from that short drudgery when the magic world of books is flung open to him? What a pity it would be in he stopped in discouragement at th aninteres
A woman. who had been in great spiritual distress, came to her clergyman nothing about, but Iher wour Intiow ling with Him. I have resolved to sub God and serve Him, and do all the good I can while I live, then go to The clergyman told her that the roa she had chosen did not lead to hell. The etc. On the spirit is love, joy, peace, to serve God, soon finds that he has chosen the best Master, Who will not fail to keep His promise : "My servanta shall sing for joy of heart."
It is important to find out whether we are really serving God or seeking our Christ: "We have forsaken all, and ollowed Thee; what shall we have there lore P" Our Lord answered that calculating question with the parable of th who were and his laborers. The men Who were hired early in the morning day's wages, but those who entered the vineyard when the day was nearly uver agreed to work, and left the matter of pay entirely in the master's hands. They lso received a full day's wages Our Master can be trusted to treat His servants, not only justly, but very genof our service by keeping our minds on the rewards, saying: "What shall we have therefore? How it spoils a git to the poor when we are looking for
ratitude, or a noble act when our hearts Ther on praise
Cross whi a picture of Christ on the it, with nich shows Him hanging against is intended to teach the fact that instead of hate really held Him there He had the power to come down, but gave up His life of His own free will. "Therefore doth My Father love Me, be cause I lay down My life," said our Master, and greater love hath no man than this, that a man lay down his life He laid down His whole life in willing service, leaving us an example that we should follow His steps. How many are held to their daily cross by that same leave behind former pleasures and dis cover new and greater joy in sell-sacrifice for the good of others ! The young girl turns her back on the pleasures girlhood, and holds out both hands for The responsibilities and duties of a wife come upen her, and her days are filled with service. If love is the motive power, then service fills her life with "goy which throws into the shade the "good times"' she had at sixteen. Does arms, long for the doll which was a delight to her at six years old? We ar not-zaninu io rexounce tite pioasurey of the worid so much as to grow away from them. We cannot stand still, but must very day set our hearts more and mor on serving God, or on serving mammon.
If we climb after God, we shall find new joys to brighten the dayo-but we must keep on climbing, and never imagine we are good enough. To relax our eflorts
is to slip back. is to slip back.

New occasions teach new duties,
Time makes ancient good uncouth ;
They must upward still, and onwar
Who would keep abreast of Truth
dora farncomcb.

## TheBeaverCircle

## Eyes.

We've most of us things in our heads We like to consider as eyes.
They may be as black as a sl
Or they may be as blue os the akios
Or they may be as blue as the skies; (Whatever their color may be) If they never get farther than looking at Mere commonplace blinking and starin Mere commonplace
For eyes were intended to see

Two fellows set out for a tramp And the sunlight was blazing around, And carious haze hung aloft in the West, of the best-
And the swallows flew close to the And the sw
ground.
One dellow slopped home in the rain
As wet as a younker could be
drought smiling, as dry as a drought,
waterpr
Scout,

Young Wilmington sauntered from school And Grey came along from his gym, There passe
Who was nervously crossing the street. when a van
Came blundering down upon him,
What followed was done in What followed was done in a flash,
Before one could count beyond thre The helpless old fellow was saved by an It was Grey who had acted the man at a pinch

The counting-house juniors were five Including Patrol-leader Brown. And he had the gumption and wit to That one of the clerks intended to leave To take a position in town. He went in for shorthand, and slaved And his French (on the strictest QT), llared the billet
He -being the only man ready to all it-"- 1 aro tho tollo Who

We've all of us things in our head We're fond of regarding as eyes; Or grayish-or hazel, or so, Or they may be as blue as the sklies; But they're not worth a couple of cente (Whatever their color may be), thinge contented with looling at Mere slack, unintelligent staring ot things), -The Trumpeter, in the Scout.

Dear Beavers,-You are all fond of plants and flowers, and are interested in watching them grow and taking care of them, but did you ever taink of them as having intelligence ? A ear. Bastin, who has been studying plants for some years, and making experiments with them, tells, in the Scientific American, of some won-


How 'to Enjoy the Hot Weather-Camping in Algonquin Park.
derfut things he has seen, whiche almost make one believe that plants possess at
least some of the flve senses which wo least some of the five senses which we
usually credit only to human beings and usually credit only to human beings and animals. Here is one thing he has seen can see : "EEverybody knows that the
sundew catches filio. The leaves of this sundew catches flieg. The leaves of this
plant are, of courpe, covered with tentacles (like long, delicate fingers) which, being very sensitive, close in around the
captive. But the foliage of the sundew bas another remarkable characteristic. It a fly is fixed about half an inch from any of the leaves, a most astonishing thing happens. After a short interval it is seen that the sundew leaf has
moved perceptibly towards its victim. Soon the cruel tentacles have actually reached the unhappy fly, and are seen to be slowly moving round their prey. There is now no chance to escape, and with every moment the fate of the insect wriggles, and the fly is dead.
In much the same way the tendrils.
climbing plants show quite clearly that they can feel things at a distance. young pea plant which was used in an oxperiment proved to be astonishingly placed near the plant at a distance of two inches, and during the few hours which followed, a very strange thing happened. The tendril, which at first was held between the leaflets, where it had been developed, dropped down to merely a matter of growth, but it was at once followed by a very deeided movement of the tendril toward the stick. Finally the whole of the upper shoot of the plant leaned over, meanwhile the tip
of the tendril was busy making sure of its hold. One could not very well get away from the idea that the tendril knew-if the word is permissible-that a support was within reach." Then he tells us of a hazel bush that grew in the being probably dropped there by some squirrel who was collecting his supply of food for winter-and when it needed more reem for its roots, sent them out to hunt for the soil beneath; and they travk of the willow, through the hollow ground twelve feet below. He also tells of a trailling cactus, growing on a gal-
vanized-iron roof which was in one place eaten through by rust. As soon as the cactus reached this point it at once sent out a quantity of roots, through the Mr. Bastin asks how on earth the plant
could know that it would reach the ground through that hole, once at the end of its journey through the air. Angrowing in a pot which was kept standgrowing in a pot which was kept stand-
ing in a saucer filled with water. The fern, not getting enough water in this way to meet its needs, sent out a spe-
cial root, outside the pot, down to the saucer of water. And lastly, he gives the following account of a case of rootCarpenter some years ago
"In a little hollow on the top of the shell of an old oak (the outer layers of
which, however, and the branches are still vegetating) the seed of a wild ser-vice-tree was accidentally sown. It grew
there for some time, supported, as it there for some time, supported, as it
would appear, in the mold formed by the would appear, in the mold on which it had sprouted; but this bent down a large bundle of roots to the ground, within the shell of the oak. These roots have now increased so
much in size that, as they do not subdivide until they nearly reach the ground, they look like so many small trunks. directed themselves, there was a large stone aboutt a foot square, and, had their
direction remained unchanged, they would have grown down upon this. But about part going to one side, and part to the other; and one of them branches into fork, of which one leg accompanies one bundle, and one the other; so that on reaching the grourd they enclose the
stone and penetrate on the two sides Don't all these stories seem to show that plants can, in some way, see or
feel ? Perhaps, if you watch your gar-
dens chaty dens closely this summer, you may see

Senior Beaver's Letter Boz. my age, and 1 also forgot to tell 'wh Dear Puck and Beavers,-This is my am an awfully forgetful girl. I am farm of about our circle. I live on ${ }^{\text {a }}$ five acres. My brother has just started to take "The Farmer's Advocate," and we like it fine. For pets I have a cat; her name is Tabby. I also have a calf;
I call it Jerry. I had a lamb, and called it Buster, but it died. I have two sisters and one brother, Tommy. iny sisters names are Grace and Tillie. I am in the Sr. IV Class, and expect. to try the Entrance this summer, WILHELMINE PERRIN (age 13). Bailieboro, Ont.

Dear Puck and Beavers,-It is some time since I wrote before, so here I am Advocate" since I can remember. I enJoy reading the letters of the charming Beaver Circle. I also enjoy reading the story entitled "The Ivory Snuff-
which is published in your Well, this is summer. I love when spring of a new with the flowers and the blossoms. There were a lot of fiowers, such as violets,
lilies, dog-tooth violets, red trilliums, and Jack-in-the-Pulpits, this year. like flowers at all times.
 Glass," "TThe Beauty," "Through the LookingBessie," "Myyths," "Robinson Crusoe." "Swiss Family Robinson," "Fairy Tales,", "Book of Pets," "Story of a Donkey,", "Only a Dog." "Child's Comto school as often as possible. We live planting my garden to-day; it is rather late, but when I do get it planted I will
water and hoe it often. I hope I am not too late to enter your Garden Competition. We have one colt, and it is a month old; we call her Gyp. One our horses was eighteen years old yestar
day (the 17th of May). She is awfully fond of lumps of sugar, so I thought I would give her a birthday present of some sugar, but there were no lumps in it, so she would not eat it. Her name is Jess. We have another horse we call
Nell, and last fall when she was doing Nell, and last fall when she was doing was fat, but it came on wet, and she had to stay in the stable, only getting out for water, and she took lymphangitis. We did not think she would get
better, but since she got out better, but since she got out on gra hall-day's work this spring, so it is like ly she will get all right again. My father has eighty-five acres to put in crop, and has twenty-ive acres sowe Well, I think I had better stop.

## Barrow Bay, Ont.

Dear Puck and Beavers,-Will you open
vour Circle a little to admit another member. My father has taken "The year, and likes it very much. We are awfully disappointed if Saturday comes around and we do not get '"The FarmBeavers' letters very much, and so thought I would try my luck. I


Meditation.

## three-quarters of a mile from the school. It will not be long till summer holidays and am am in the Junior Fourth Class, and am twelve years old. 1 am expect- ing to try for the Senior at holidays. I am having a good time now. You home to play with, only the kittens and the dog, but I always like playing with them and being out among nature. them and being out among nature. I never got a prize from the Circle, for never tried w.-p. b. Will someone of my own age please correspond with me? the Beaver Circle every success, your triend. VERA V. SPEER. R. IR. No. 3, Tara, Ont. Your letter, like a good many others, Vera, has been delayed, you see. you have passed your examination for ing your holidays. Class, and are enjoy

 Dear l'uck and Beavers,-I wrote a let ter a while ago to your happy Circle, what you would call a regular book-
worm. Some of the books I have read
are, "Queechy," "The Lemplemer "Black Beauty," "The mamplighte go to school every day, and am in the
Senior Third Class. Well, I guess I will Ior this time. $I$ guess will MYRTLE CAMPSELL (age 12). The Circle is elastic, Myrtle, and there s always room for a new member. Dear Puck and Beavers, -I Kave been
silent but interested reader ly Circle. My father has taken "The
Farmer's Advocate". Farmer's Advocate" for years, and would
not be without it. I am eleven years
old and am in the Junior Fourth (las at school; my teaeher's name is Miss McFadden. I live on a farm of one
hundred acres. We have six horses and twenty-two head of cattle, about eighty hens, and forty chickens, but will ge
more in a short time. For pett a cat named Snowball, and a colt named
Minnie. I guess I must close Minnie. I guess I must a close, hoping that the w.-p. b. is not hungry when
MANCY GERBER (age 11, Jr. IV).

Dear Puck and Beavers,-This If
arst letter to the Beaver Circle Arst letter to the Beaver Circle. father has taken "The Farmer's Adro-
cate" for 27 years, and when it comer I always turn to the Beaver Circlo aid
read the letters. My brother and read the letters. My brother and slitior a mile to walk, but in winter we an driven. How many of the Beavers lile picking May flowers? I do, and I io and 2 pet ones. I suppose a 13 lambe Beavers have flower gárdens. We do and have a lot of the seeds and dahli bulbs planted. We have the seeds plant. for the garden competition giong to thy I will send in my name now. have a cat and a pigeon; For pets name is Buster. Well, I must close my letter is getting long, hoping thic ELAINE SIMPSON (age 10, Jr. IV).
your Puck and Beavers,-May I eniter been a silent onlooker? I have alvar been going to write, but have neygathered up enough courage till not vocate" for a taken "The Farmer's Ad would not be without it for anything Like most of the Beavers, I am a greet bookworm. I think the Alger books aro
great, although they great, although they are for boys. How like one. I have taken one quarter, and take part in a debate? We you over bate at our school at Easter. It was on "Country Life and City Life." I was on the negative side (city life), and the
side I was on won. I think thet side I was on won. I think that de bates are great sport. Well, Puek, as
this is my first letter I will not make it very
riddles.
What month do women talk the least in? Ans.-February, as it only has twenty-eight days?
What three great poets would you thing of if you saw a house burning down? ns-Howitt-Burns
Why is a dog dressed more warmly th
summer than in winter? Ans.- Because summer than in winter? Ans.-Because
in winter he wears a fur coat, and ti summer he wears a fur coat, and pants.
Wishing you all success and happinea. Wishing you all success and happinese. ida G. L. Sparling.
(Age 14, Sr. IV Class.) R. R. No. 2, Camlachie, Ont
P. S.-Will some of the Beaver girle please correspond with me?

The name of Millie Glover (11), Madoc, nt., has been added to our list of comp-
petitors in the Garden Competition. Her petitors in the Garden Competition. Her

Dr. Grenfell's Advice to Boys.
I was reading a letter recently from a to his school, ahd the letter is nearly eighteen hundred years old. I suappect you will hardly believp it, but the letter was really and truly to prepare the not flinch at the suffering.
Here is a thing he says: "An overled body may be good for the beasts, but it
If you are to be plucky and brave and hust keep yourself hard and fit. In Labrador we have no penny, bloodnewspaper a day. Lots of our boys capnot read and write. But they can ondure hardness like good soldiers. with twinter one boy of filteen was left dogs, while the doctor wand his men travelled off to kill some deer. He was warned not to move, or they would possibly be lost. As it happened, the men only found a house fifty miles away on he third day after. They at once sent gang of men to look for the boy. Do ou think he had run away in all that nights? Not a bit of it! He was just where they had left him.
I have had to look death in the face
the world that helps you to keep cool the skeleton of an impure life to weaken you and trouble you. The best thing in he world is not gold and silver or tood and clothing-no, not by a very long
way.
If left a watchword with you, it would be: " "Learn to keep your eyes open and to see chances where you can and a career behind you that kings will envy."
The Ingle Nook. position, the head lower than the body. ing around the neck and upper part of
the body, allowing the fresh air free ac-
cess, is usually sufficient commurationsy vend pame and addresen with


How to Meet Emergencies. Written by (Miss) Add B. Odell, wounds.
a thort time ago a number of men were gathered in the bar-room of a coun-
ry hotel.
$A$
quarrel arol arose, during which one man received a terrible gash in the leg rom an ax, from which wound he reach him, his comrateses standing buld lesaly by. of course, they were more or less intoxicated, but oven had they not been, they very likely would have had no thea what to do. The wound was in tho leg, fust below the knoe. The thigh Should have been foxedel, or drawn up on
the abdomen, and the leg fexed on the the abdomen, and the leg fiexed on the
thigh; and held firmly in place with
a tout bandage, or had a very tight ban dage been applied just above the knee the hemorrhage could have been arrest od until the physiciany arrived, and the man's life saved. Should hemorrhage oc-
cur from a wound in the hand or arm, below the elbow, a firm pad should bed placed in the hollow of the elbow, and the forearm brought up tightly agains the arm and beld in place with a tight If the
If the bleeding be from the abdomen,
he foot of the bed should be elevated on a table or two chairs, making sur to remove the castors from the head of the bed before raising the foot.
A little oozing does not necessarily mean a serious hemorrhage, but when the artery has been severed, and no time must be lost. A physician must be called, and until he arrives the bleeding must be arrested. This can always be done by pressure on the artery severed, between the wound and the heart. In
case of doubt as to which side of the wound to apply pressure, apply it both

FRACTURES
Fractures are very frequent emergencies and, of course, call for a surgeon. Unt comfortable as possible; remove the clothing gently, the seams being ripped, be-
ginning with the injured side. In raising a fractured limb, slip the hand underneath, take firm but gentle hold at
two points a short distance from the tracture on either side, lift with both hands at the same time, slowly and position, or most comfortable. Frac tures of the skull are dangerous, and lit except to keep the patient very quiet in except to keep the patient very quiet
a dark room with cold applications never head. Alcoholic stimulants must
head head. SPrains.
In case of sprains or wrenches of
joints, the limb should be elevated, hot applications applied for several hours,
then bandage firmly. It is well ever, to have a physician examine the serious than suspected.

Burns.
In case of severe burn or scald, excludIng the air will do much to allay the
pain. In superficial burns where the skin is not broken, bicarbonate of soda
(common baking soda) should be sprinkled thickly over the burn, the part
place a layer of common cotton batting absorbent cotton is not obtainable, where the skin is broken. If there are blisters, they thould be opened at the lower edge and the fluid allowed to ooze
out. The dressings most are: Carron oil (which is equal parts of lime water and linseed oil), ointments of zinc oxide, or boric acid, and simple or carbolized sweet oil.

FAINTING.
For a condition commonly called fainting fit, put the patient in a recumbent cess, is usually sufficient. If recovery
does not almost immediately take place external warmth should be applied and

POISONS.
It would be impossible here to give an in any case where diferent poisons, but in any case where poison has been swal-
lowed, an emetic should at once be given. water. For an adult, one tablespoonful to a cup of water; for a child, half that the patient vomits very freely,

## General suggestions.

And now, let me give a few suggessick room, without the aid of a traíned nurse. First, as to the room, let it be
on the sunny side of the house, and give plenty of sunshin, or eyes, should the light be excluded. Let it be as far as possible from the
street noises, or the noise from the kitchen, oil the hinges of creaking doors, fix wedges in rattling windows, remove


The Tocsin of the Soul, the Dinner Behl.
One which can nearly always be obtained ease. Change the bedding and the pa-
and drop it in the stove or grate when ing in a sick room, this being extremely annoying to a weak person. Keep medicine bottles out of sight. As to ventilation, secure pure, fresh air, at all hours of the day and night, keep the patient tected from draughts, but never shut out the fresh air. Remember this, the smaller the space through which the air is admitted, the greater the danger of having a draught. In ventilating by means of Windows, they should, if possible, be descends, and at opposite sides of the room if possible, and in this way any draught is too high up to harm the patient unless a door is left open. A patient should be well covered two opened and the room thoroughly aindows No patient is ever too ill to aired. clean. Fear of taking cold, often leads onwise neglect in this particular, butt lothing unchater risk in leaving the skin clogged by noxious products of dis-
her with face from you, and with both hands remove soiled sheet and draw the with a little practice this becories a ver ensy task. The fresh upper sheet and blanket are to be spread over first, and the soiled ones drawn from underneath. As to the bed, if the patient be helpless, requiring a great deal of waiting upon,
the bed should be high enough that the attendant would not have to stoop in lifting or raising the patient. A block of wood put under each foot of the bed will raise it to the required height. The bed should be made up with la firm mattress, never a feather bed, the under sheet wrinkles, crumbs, etc.; the covering light, but warm. Two or three small pillows are better than large ones. Prop up the ders without way to support the shoulthis without throwing them forward, as lungs.

FOOD.
As to food, serve regularly in dainty picion. Never taste it yourself in the presence of a sick person. Makp it as attractive as possible in the way of
spotless linen and china. spotless linen and china. Have hot
things hot, and cold things cold. Some times, when a patient is not inclined to eat, a little judiclous management on your part will result in a fairly good meal being taken. Encourage her to try a lith conversation try to divert her mind est (save your comical will be of interoccasion), keep her attention of what she is doing, so that, unconsciously, she will eat a great deal more than if lift alone. In conclusion, remember freedom trom anxiety and cheerful companionship mental, as are free ventilation, absolute cleanliness and nourishing food, for the physical well - being of a sick person. These are the elemants of good pursing, and surely they are within the reach of
all. Secure these, and you wlll have given the individual under your care the chance for recovery

Dear Junia and All,-Once more I'll try the come to join the circie or friends in missed; how kind you all are to the Lass. And so you wonder what has beCome of me; so the little birds have been telling me: Herre I ain yet, dear triehds, and hardly know what to write. One who is never off the farm or out anywhere, has no great stories to tell of wish to or pleasure trips, and I do not wish to weary you, but to-day some let-
ters came to my view that had been written by many kind Nookers, and cheered me so much that tears of gladness fell when reading them, so full of whindness and helpful cheer to me, Juat when feeling so lonely, and how cheered kindly written here to me, and have so Junia, too, and Hope; how they inspire us by their good works. What nice taiks Junia gives us, to be sure! she te my, what a help she is to big, but, oh, I hope she has had a pleasant holidey so the questions asked will not tire her too much. The glad summer-time is fast passing away. Mey it be a plecsant glad. How much more the birds are should be for the blessinga given from to day, more than we could think or ask, our heavenly Father sends us. many even when shat in, there are so load is so heavy to bear bus for, and no load is so heavy to bear but strength is feel one Friend careth for is sweet to Earthly friends may forget, but Jesuis. never does, and in the end we shall see, atter all. it was for some nice purpose ures laid aside from the outside pleasures the world gives; and how many there
are now ! Autos; go racing by loaded with people on pleasure bent. by loaded sixteen in one hour passing here one holiday afternoon, and motorcycles as well as other ways. How fast the world goes on to-day. I am afraid some for so long now, as when I pick up 'יThe Advocate", and scan the pages, no old friends' names are there. Please sit ye doon and write a wee bit once more almost forgot about my flowers; I do not
think they ever were so full of bloom as
this summer. I often say I just foel Jesus gives so much bloom to cheer us Jesus gives so much bloom to cheer
elongy passers-by and all say they are a aiong; passers-by and all say they are a
lovely show. Now, dear Nokers, one
and ail, I hope this long letter will not weary you, but cheer you a wee bit, it
is all I can do now, and to write is quito a task for mew, Thanking one and
all again for any kindness shown to me, all again for any kindness shown to me, may you not weary in! well doing. The
below lines came to my mind, so send
them on to let you know I wish to do them on to let

Oh, that I could be more useful,
Helping others along,
And wouldn't I: really
And wouldn't I: really lo
If only I were strong
Whe close, with best wishes to all.

- LaNKSHIRE LASS

Wellington Co., Ont.
Dear Junie,--I there any way in which
white maiks can be removed trent white marks can be removed from a a demp dress being left lying on it. It oceate." I would also like to know whet ceuses white curd in butter.
Mollic. The Scientific American gives the folowing treatment for the removal of wood: "Fold a sheet of blotting paper - couple of times (making tour thick-
nesses of the paper), cover 'the place with it, and put a hot smoothing-iron thereon. Have ready at hand some bits of
 lace of the wood quite warm remove the
paper, etc., and go over the spot with papper, etc., and go over the spot with
a pece of param, rubbing it hard enough Now, with one of the hot pieces of flannel, rub the injured surface. Continue
the rubbing, using freshly-warmed cloths, the rubbing, using treshly-warmed cloths,
untili the whiteness leaves the varnish or
polish. The operation may bave to be unth the
polisk.
repeated.
repeated.
White
curds in butter are too sour, or not thoroughly and frequently itirred. Sometimes it results from particles of dried cream or the surface
layers hardening through evaporation. As a remedy. thoroughly stir the cream
from the bottom upwards whenever addfrom the bottom upwards whenever add-
ing new quantities to the container, and ing now quantiles to the container, and perforated-tin strainer dipper.

## Domestic Economy

 nenting the information already published in the Daily Mail, reveals the sys tem of housekeeping by enforcing which When Sunday's heavy meal is done Imprimis, undismayed and bold And lo : the same on Tuesday will The odds and ends we keep in store,Divided neatly into four.

A portion (No. 1) will do
For Wednesday's so-to-speak $\cdot$ ragout A portion (No. 2) will be
The gist of Thursday's fricassee A portion (No. 3) supply
The pith of Friday's "cottage pie" A portion (No. 4) will play

Entitled, may be. "a la russe, "
Or, better still, "anonymous."
Thus is economy attained,
For thus is appetite constrained
The Scrap Bag

A very convenient contrivance is a
leaf, like a table-lea?, built on your kitchen wall. It is out, of the way when
not wanted, and ready for wase when not wa
needed.
Oil your castors once in a while and oe how much more easily
of furniture may be moved.
little borax to the water
Pure oil of turpentine, mixed with one per cent. of oil of lavender, is the finest
of all simple methods for puritying the air of a stufy room

If a paper bag is slipped over the
hand before the cloth is taken to clean hand before the cloth is taken to clean
the stove, the finger-tips and nails will be saved contact with the brine.

To Launder Art-muslin Curtains.-Ar
muslin curtains should not be washed in warm water. Put them into a lather of
nearly cold water. If the curtains are green, add a little vinegar; if lilac or pink a little ammonia. Salt will
colors of black-and-white muslins.
Lemonade is a splendid liver 'onic. ${ }^{\text {a }}$
glass of it taken every glass of it taken every morning before
breakfast will often clear up a muddy skin.
and applied to the back of the neck will and applied to the back of th
often relieve severe headaches.

To remove the traces of mud from black garments, rub the
potato cut in halves.

## Seasonable Cookery

 Ripe Cucumber Pickles - Paders. Ripe Oucumber Pickles.-Pare and serapethe insides from seyen large, ripe cucum-
bers, cover with water to which has been added a tablespoonful of salt, and soak over night. In the morning, take one
quart vinegar, one pound white sugar one tablespoonful each of clovens, cassia,
and pepper; add the drained cucumbers and pepper; add the drained cucumbers,
and just boil for two minutes, and botSweet Pickled Apples.-Make a syrup of one cup of vinegar and two of sugar;
add a few small pieces of whole cinnamon and some cloves. Pare and core sweet apples, drop them into the syrup,
and let them cook till tender. Put in They are ready to eat as soon as cold, and will keep for any length of time. Spiced Apple Pickles.-To three pounds
pared apples allow one and a half pounds sugar and a half-cup vinegar; tie up a
stick or two of cinnamon, a blade or two of mace, a few cloves, in a bag, and put with vinegar and sugar and teacup
water. When it boils put in the water. When it boils, put in the ap
ples; liet them cook until they are tender
Pour the spiced vinegar over then Pour the spiced vinegar over them.
Scald once or twice the first week by
drain draining of and reeheating the vinegar
Small apples are best for this pickle. Little White Onion Pickles.- -Pour boil-
ing water over the onions and peel; then cook in strong salt water a few m:nutes, take out and fill up the bottles, pour hot
vinegar over, and seal. To make the
vinegar one vinegar over, and seal. o make the
vinegar, use two quarts of any kind of
white vinegar, two cups of sugar. two tablesponnfuls of white mustard seed, six
drops of cinnamon oil, six drops of clov
oil, and boil about ten minutes. sinall red pepper or two will look prett
in the bottles. This quantity will in the bottles. This quantity will mak
up two grape baskets of onions. Pickled Caulifower.- Separate th
stems, wash them carefully, end sprinkle with salt, using half a pint of salt for a
peck. Let them stand twelve hours,
then shake off the salt jars with a few pepper-corns, and cover
with booiling vinegar. Pickled Beets.-Select small, red beet
of even size and boil till tender; the drain and place in jars, cover with boil-
ing vinegar (adding spices if desired), and seal.
Chow-chow of Ripe Cucumbers.-Us
four quarts of ripe cucumbers. peeled an
chopped fine, half a pint of salt, two
ounces of white mustard seed, ounces of white mustard seed, two green
peppers, and one red pepper
spoonful peppers, and one red pepper, one table
spoonful of black pepper, and enough
vinegar to cover vinegar to cover. Mix the chopped onions
and cucumbers with the salt, and put in and cucumbers with the salt, and put in
the press for twenty-four hours. At the the press for twenty-four hours.
end of that time put the vegetables in a
bowl and add the dry ingredients. Miz bowl and add the dry ingredients. Mix
well, -and then add the vinegar. Put well, and then add the vinegar. Put
the chow-chow in jars, placing a few nasturtium leaves and a few pieces of horse-radish root in the mouth of each
jar. They flavor the chow-chow and jer. They flavor
help to keep it fresh,
Chow-chow No. 2.-For two quarts o this pickle use one good-sized head o caulifower (one weighing about thre
pounds), eight small green peppers, ter pounds), eight small green peppers, tel
small cucumbers, about one and a hall inches long, one pint of pickling onions
of the smallest size (they should be no of the smallest size (they should be no
larger than a cherry), one pint of salt larger than a cherry), one pint of salt,
one quart of vinegar, three tablespoon-
fuls of tumeric, a generous teasponful of cayenne, and ane gill of water. Peel the onions and cook them in boiling
water for a quarter of an hour; then pour of the water and put them into a bowl. Break the cauliflower into smal
branches and wash in cold water. Put branches and wash in cold water. Put the peppers, cucumbers and caulifowe
into a large bowl. Put the salt into a stew-pan with two quarts of boiling
water and boil for ten minutes. Skim water and boil por a part on the vege this brine and pour a part on the vege
tablea and a part on the onions. 'Let these ingredionts stand in a cold place
for twenty-four hours. At the end of this time pour off the brine and put ond
vegetables into a preserving kettle. Mix vegetables into a preserving kettle. Mix
the mustard, tumeric and cayenne with the water and add to the vegetables.
Now add the vinegar, and place the ket Now add the vinegar, and place the ket-
the on the fire, heat slowly to the boil ing-point, and simmer for one hour. Pu
the pickle into hot

## On the Little Mill Trace

 It was cold in the mountains. Thelvory laden summuts towered whit against the brilliant blue of the west steep after steep. From above the sun was light without warmth. Save for a lew curls of smoke, that rose visibly sign of life showed on the crackling treo-clad helights. Fhe song birds had long ago gone, and the four-footed
mountain prowlers were tucked snugly away in dens and hollow trees, shelter-
ing themselves from the ling themselves from the icy wind. Even made rugged by their hard lives, clung closely to their mud chinked cabins
hovering above roaring Warmly wrapped roaring, oak $\log$ fires. an anticipating sigh when, at the top of a ridge, my guide pointed a glove
swathed finger at a prosperous looking log cabin, behind which showed a mea house and lines of bee gum hives. Some distancs beyond rose a curl of smok
that betokened another cabin
"'That's Zeke Tolliver's," he explaine
"abin." dering whether Zeke or anybody els my visit to this to repay me for region in the depths of winter. mountain frew nearer 1 could see that the path
from Zeke's to the cabin beyond was well trampled. Along it a half grown
boy, wrapped like a bear against the coy, wrapped like a bear against the the ice-laden trees. Close to Zeke's my
guide stopped him. "How is she ?" he asked.
The boy did not ask whom he meant
."She's She's dyin'," he mumbled. "Dr.
Sunders says she'll live a week maybe;
but she's dyin'." He choked up and My guide , looked alter him. .'That's
Bill Floyd," he grunted ."He's Bill Floyd," he grunted. "He's been
walking five miles every day from Three Ridges to ask about her." I noticed
that the guide, too, assumed that ther could be but one "her."
He was right. 'The nearer I had come to the mountains the mearer it had come woman and only one so there was the one
ple of the region were concerned ple of the region were concerned, peo-
that one was the woman whose illness
had drawn me all the way had drawn me all the way from 'New
York in search of a "heart inter
wrote. One woman-and she Ev know it. Rockfish had heard it; Devill Knoo had heard it; Nellyford had hoer hirty miles to inquire as to a delogat Three Ridges had held a meeting an ad subscribed various mites for he enefit. Throughout the length an tion asked whan men and women mee
was as to the health of the litil was as to the health of the litti
schoolmistress of Little Mill Tract choolmistresse
Four counties ! ${ }^{\text {of }}$ Little Mill Trace
Fowr are carrled in th hearts of the men and women of tour counties. - So general was the interest hat even the correspondent of The east heard of it and sent in to the about it-an item that had brought mo to the mountains.
The absorbing interest felt was the
more remarkable becauee the chiol more remarkable becauee the schoolmie
tress of Little Mill Trace seemed be a native of the region, though had lived in it for so long that no ors whom I had yet seen could tell when
how she had come. Most of tho whom I quaestioned. know only that for thirty years she had lived house and had taught day after day all who would come to her. had started upon male and femalo- the road to knowedge, offering their members escape trom that had hodged their parents for: genthat there wene doeds to be done and prizes to be gained, both at home and towering mountain walls which ringed the Little Mill Trace. A fow it it seemed
had gone forth and made great named had gone forth and made great names
for themselvee-names that echoed even back across the mountains. Othare hat gone and had neither come back nor
sent word to tell of their whereabouta. Most, however, had remained at. their homes, richer, stronger, happier, for the
knowledge that she had ziven them. Irsensibly the whole tone given them. Irhad changed. "Those people up thare are most halr civilized now," admit
one of my informants wonderingly. And now she was dying. The Ridge
could not believe it. She had bean could not believe it. She had been torch for so many, lighting the way to
better things. She stood for hope in ths eyes of so many who had planned year." It seemed imposesible that she was going away and that the doore
which had stood open for thirty yeara were to be closed forever.
So much I gathered here and there an Little Mill Trace region. But of the woman herself, of her derivation, her
history, her reasons for undertaking the great, unending task shor undertaking the great, unending task she had so splen
didly begun, I could learn nothing. "Ask Zeke Tolliver," people told me. Zeke kows. So I had come to aelk Zeke Tolliver. Lorward to meet me ta I entered-a huge old man, bearded and unkempt, and uncouth in speech, though not from lack of education. More than
once as he talked he surprised me by once as he talked he surfprised me by
his unexpected knowledge of the world. "She came up hyer thirty-five years ago-thirty-five years ,most to a day,"
he said. "I know, fur I was forty. he said. "I know, fur I was forty years old the day I first see her and
Im seventy-five now. She's lived hyer ever since. ${ }^{\text {II }}$ reckon you think we're migh poor and shir less and onery up hyer: you're right! But we ain't nearerabout as poor and shif less an onery as wo
was when the little schoolmistress come. In them doys we kved mighty nigh
hand to mouth. We hadn't nothingno helds no roads, no doctor, no preacher, no learning-nothing but old
burnt-out muskets and a little powder and ball an' toobacco.
"Then the little schoolmistress come.
She warn't the little schoolmistress then. She was jest a giri with white cheeks and with fear in her eyes. She the door of Dad's cabin. Mam anded at at her and took her in an', turned us
all out. An before mornin' there was
two two of them. Shere mornin' there
ing; never said whever axplained no ing; never said whar she comed from
never told nary word about the baby

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[^2]THE FARMER'S ADVOCATE.

|  |
| :---: |





| Somehow we got through those two days. We were'all present, all of us, on the third day, ranged aglainst the side of the room in a row like schoolboys, charged not to speak or move. The doctor sat by the bed. The nurse stood ready. | have found the way back anyway, darling Mother.' <br> Feebly the little schoolmistress ralsed her arms and twisted them around the great, strong neck that bent so willingly to the embrace <br> "My Harold !" she murmured. "My |
| :---: | :---: |
| again. Her words were much the same |  |
| as those I heard on the day I came | he editor object |
| but her tones were different-cool, un- terest story. He said it hurt |  |
| "Mon't go away from the cabin, But I did |  |
| rold," she repeated again and agai | , |
| from the cabin, littio | mixed me |
| ar'll be back fro |  |
| "I won't, mother! I won't!" | her joy--Crittenden Marrio torial Reviow. |
| He was bending over her. The sweat was gray on his temples; his eyes were wide; his jaw was set like sleel. But <br> The Windrow. |  |
|  |  |
| "Stay close, little son. It a bad mancomes and tries to take you away, call |  |
| comes and trics to take you away, call |  |
| mine, Harold ! |  |
| right to you.comes." |  |
| Lower bent the doctor. "I did call, as the years roll around, and thus, Mother," he said dreamily. "I called, five days a week. once, twice; then he carried me away. |  |
|  |  |
| I couldn't help it, Mother dear. He may. |  |
| my way back-till to-day-not till to- which runs on two tandem wheels like a |  |
|  |  |
| 'he little schoolmistress' eyes opened. The gyroscopic railway recently |  |
| "Where is he now, little son?" she |  |
| "He is dead, Mother. Through all |  |
| thous long years he did the best he and lessening of wear and tear on the |  |
|  |  |
| swer my questions about you. Only at parts, economy of fuel, and the high rate the very last, when suffering had soften of specd which is possible. |  |
| ed his heart, did his love for you bring |  |
| repentance. 'Then he tried to tell mewhere to find you, but he had waited |  |
|  |  |
|  |  |

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coming-out,", Woman, "Yes, mum. You
Flower Woure
ehall ave the very best for ,er, pore
dear Wot wery she put in, fonch


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$\qquad$ nand sums nated that theon woo numy use. "I just put on a pan of beans
dinner," she heard one woman compla She hung up the receiver, and waited Three times she waited, and then, es
asperated, she broke into the converso "Madam, I smell your heans burning,
she announced crisply. A
horrifie scream greeted the remark, and the young

JULY 30, 1914
THE FARMER'S ADVOCATE.
140
The Spice of Life. Father (from top of stair
fis that young man gone?
Ethel-Awfully, pa.-Grit.

SHE TOOK UP POULTRY.
Hens have made a new woman of her.
She looks ten years younger, and she's
She looks ten years younger, and she's
lost fifteen pounds she in no wise need-
lost fifteen pounds she
ed."-Girl's Own Paper.
Two Irishmen were working on the
roof of a building one day when one made a misstep and fell to the ground
The other leaned over and called: "Are yez dead or alive, Mike?"
Are yez
"Oim alive," said Mike, feebly.
"Sure youre such a liar Oi don't
"Snow whether to belaye yie oren know whether to belave yez or not.".
"Well, then, Oi must be dead,", said
Mike, "Por yez would never dare to call Mike, "Hor yez would never dare to call
me a liar if Oi wor aloive." Mrs. Black woke her husband one night
and whispered: "Larry, there's a burglar In the parlor! He just bumped against
the piano and struck several keys the piano and struck several ${ }^{\text {andeys." }}$ "Is that so?"' said Larry. "I'll go right down there."" "Ohispered the excited wife, "don't do anything rash!" "What
"Rash!" replied the husband. "Why
I'm going to help him. You don't supI'm going to help him. You don't sup-
pose he can mave that piano from the
house without assistance do house without assistance, do you?" A young gentleman with a very plain
lace was rather annoyed because his view
of the stage was obsiructed by of the stage was obstructed by the hat
of a pretty girl who was sitting in front of him in the gallery. Wishing to get a
glimpse of the performance, he plucked glimpse of the performance, he plucked
up courage, and in a nervous voice ex-
claimed: "See here, miss, claimed: "See here, miss, I want to look
ns well as you." "Oh, do yer?" she rePlied in a rich Cockney accent, as she
turned round and looked at him square in the eye. "'Then you'd better run WHY HE LOVED.
A woman prison missionary
A woman prison missionary was in-
sistent that there was some good in
every one-pven the worst of the prisoners. To prove it she sought out the prison demon and found him fondly
stroking the cat. "A man who'll pet a cat certainly has
love in his heart," she said to herselt, adding aloud:
"Do you love that cat?"
"You bet I do,". replied the prisoner -He bit the warden this morning.'
A small boy had been given a penny
with a hole in it. Handing it to a still smaller companion, he said:
"Jimmie, I dare you to go into that
store venny." ${ }^{\prime}$. Jimmie was
boldy, he said: "I want a a doughnut." And taking it, he hastily presented the penny.
"Here," said the clerk, "this penny has a hole in it."
"So has the doughnut," ; announced
Jimmy, triumphantly holding it NOT SO NOISY.
A gentleman tells this story of Sab-
bath breaking north of the Tweed One brawny Scot was hammering away
at the bottom of his wheelbarrow when
his wile came to the door his wife came to the door.
"Mon! Mon!", she exclaimed, 'you're
making much" clater making much clatier. What wull the
neebours say?",
"Never mind the neebours," returned the bever mind the husband. "inebours," returned
barrow mendit.".
baun get ma "Oh, but Donal', ${ }^{\text {it's }}$ very wrong to
"urk on Sawbath,", protested the good
"uman Murphy was a $\overline{\text { new }}$ cavalry recruit and
Was given ihe troop. "Reme of the worst horses in "Remember," said the sergeant, "no
ne is allowed to dismount without
ordera,", Murphy was no sooner in the saddle ver his hearse kicked and Murphy went Murphy," yelled the sergeant, when
he discovered him lying breathless on the
kTound, "you dism ground, "You dismounted!"
"I did,",
.
"Did you have orders?"
From headquarters?

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## Our Serial Story

## PETER.

Novel of Which He is Not the Hero By F. HOPKINSON SMITH.

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While all this was going on downtown under the direction of the business end of the house of Breen, equally interesting events were taking place "uptown under the guidance of its social head. Strict orders had been given by Mrs. Breen the betore that certaire dustings and furniture should an the spacious stai ewwapt, and pace, ic hired palms in their great china pots watered. I say "the night before," because especial stress was laid upon the fact that on no account whatever were either Mrs. Breen or her daughter Corinne to be disturbed until noon-neither of them having retired until a late hour the night before.
So strictly were these orders carried out that all that did reach the younger woman's ear-and this was not until long after mid-day-was a scrap of news which crept upstairs from the breakfast table via Parkins wireless, was caught by Corinne's maid and delivered in manifold with that young lady's coffee and buttered rolls. This when deciphered meant that Jack was not to be at the dance that evening -he having determined instead to spend his time upstirs with a disreputable old fellow whom he had picked up somewhere at a supper the preceding nigh
Corinne thought over the announcement for a momont, gazed into the egg-
shell cup that Hortense was filling from the tiny silver coffee-pot, and a troubled expression crossed her face. "What has come over Jack ?"' she asked herself. "I never knew him to do anything like
this before Is he angry, I wonder, because I danced with Garry the other
night? It was his dance, but I didn't night? It was his dance, but I didn't done everything to please me-until now." Perhaps the boy was about to slip the slight collar he had worn in
her service-one buckled on by him willher service-one buckled on by him will-
ingly because - though she had not ingly because - though she had not
known it-he was a gugst in the house. Heretofore she said to hersell Jack had been her willing slave, a feather in her cap-going everywhere with her; half the girls were convincod he was in
love with her-a theory which she had encouraged. What would they sa now ? This prospect so disturbed the the button, and again Hortense glided ${ }^{\text {n }}$ "Hortense, tell Parkins to let me and get me my blue teargown; I sha'n't go out to-day." This done she sank back on her pillows.
She was a slight little body, this Corinne-blue-eygd, fair-haired, with a
saucy face and upturned nose. Jack thought when he first saw her that she
looked like a wren with its tiny bill in the air-and Jack was not far out of
the way. And yet she was a very methodical, level-headed little wren, with
several positive convictions which dominated her life-one of them being that evarybody about her ought to do, not
as they, but as she, pleased. She
had begun, and with pronounced success, remember, and had then tried her hand on her stepfather until it became evi-
dent that as her mother controlled that dent that as her mother controlled that
gentleman it was a waste of time to experiment further. All of which was
a saving of stones without the loss of any birds.
Where she failed-and she certainly had Where she failed-and she certainly had
failed, was with Jack, who though punctiliously polite was elusive and-
never quite subdued. Yet the discovery
made, she neither pouted nor lost her
temper, but merely bided her time. Sooner or later, she knew, of course, life and who was evidently dazed with Il the magnificence of the stately home overlooking the Park, would find his happiest resting-place beneath the soft plumage of her little wing. And if by any chance he sbould fall in love with her-and what more natural; did not everybody fall in love with her !-would it not be wiser to disposition on the young man's part to thwart heir undisputed sway of the household?
For months she had played her little game, yet to her amazement none of
the things she had anticipated had happened. Jack had treated her as he would any other young woman of his. acquaintance-always with courtesy-always doing everything to oblige her, but never yielding to her sway. He would
laugh sometimes at her pretensions, just laugh sometimes at her pretensions, just
as he would have laughed at similar self-assertiveness on the part of any one else with whom he must necessarily be thrown, but never by thought, word or deed had he ever given My Lady Wram the faintest suspicion that he considered more entertaining, either in song, chirp more enter plumage, than the flock of other birds about her. Indeed, the Scribe knows it to be a fact that Jack's innate politeness had not forbidden, he would many times have told her ones, to which her ears had been strangers since her school-girl days. This unstudied trearment, strange say-the result really, of the boy's in-difference-had of late absorbed her. What she could not have she generally longed for, and there was not the ment that Jack was still afield.
Argin the girl pressed the button Again the girl pressed the button of
the cord within reach of her hand, and or the third time Hortense entered. "Have you told Parkins I want to
know the very instant Mr. John come know the very instant Mr. John comes "'Yes. miss."
And, Hertense, did you understan chat Mr. John was to go out to meel
the gentleman, or was the gentleman to come to his rooms?" "Think, miss." "To his rooms. I think, miss."
She was wearing her blue tea-gown. stretched out on the cushions. of one of the big divans in the silent drawing room, when she heard Jack's night-key she ran toward him. "Why, Jack, what's this I hear about your not coming, to my dance ? It
isn't true, is it?
She was close to isn't true, is it ?', She was close to side, her thin, silkea draperies dripping about her slender figure
"Who told you ""
"Leaky Parkins ?" laughed Jack, tose ing his hat on the hall table. Jack ? you are coming, aren't you "Not to-night; you don't need me, Corinne." His voice told her at once that not only was the leash go
"'Then please excuse me, for I have an old gentleman coming to pay me a
visit. The finest old gentleman, by the way, you ever saw ! A regular thoroughbred, Corinne-who looks like a magnificent portrait!" he added in hio "But let him come some other time," she coaxed, holding the lapel of his coat, her eyes ssarching his
"What, turn to the wall a magnificent old portrait!" This came with a mock
grimace, his hody bent forward. his eyes grimace, his hody bent forward.
brimming with laughter. think it very nice in you to stay upstairs in your den when I am giving a, dance? Everybody will know you are
at home, and we haven't enough men as at home, and we haven't enough men as
it is. Garry can't come, he writes me, it is. Garry can't come, he writes me,
He has to dine with some men at the "I really am sorry, Corinne, but ${ }^{1}$ can't this time." Jack had hold of her hand now; for a brief moment he
was sorry he had not postponed Peter's. Was sorry he had not postponed Peter cause any woman a a disappointment:
"If it was anybody else I might send


[^3]
## One man's experience



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and on, Jack standing at attantion,
hands clasping an imaginary mueket his face drawn down to its severest lines, his cheeks puffed out to make him look the more solemn. When the wren got "real mad" he would oftan say whe the funniest thing alive.
"'I'm a pig, I know, aunty" (here flourish), "but Corinne does not really want me, and she knows it. She only wants to have her own way. They don't dance cotillions when they come here-at least they didn't last time, and I don't believe they whit to-nig the cornsit around with each the fellows they've picked out-and it's all arranged between them, and has been for a was going to give a dance." The boy spoke
with earnestness and a certain tone of with earnestness and a certain tone of conviction in his voice, although his face
was still radiant.

## was sll

Jack ?', remarked his aunt, pausing in her onward movement for an instant. "I'm sure there will be some lovely girls."
"Yes, but they don't want me, I've got their own set." "It's because you don't want to be
polite to any of them," snapped Corinne with a twist of her body, so as to face him again. "Now. Corinne, that isn't fair; I am
never impolite to anybody in this house. never impolite to anybody in this house. "Well, Garry isn't tired." This last shot was fired at random.
Again the aunt poured oil: "Come, children, come ! Don't let's talk any
mors about it. If Jack has made an mors about it. If Jack has made an
engagement it can't be helped, I sup-
poss, but don't pose, but don't spoil your party, my
dear. Find, Parkins, Jack, and send
him to me. him to me. . Ah, Parkins-if any
one calls say ill be out until six o'clock." my lady." Parkins knew can
"Yes, my which sids his bread was buttered. She cuse was that, she was so like his form-
er mistress, Lady Colchester, that he er mistress, Lady Colchester, that he
sometimes forgot himself. sometimes forgot himsel And again my Lady swept on, this ing carriage.

How the Grop Stands. In a bulletin issued by the Census and
Statistics Office, revised estimates are given of the areas sown to spring crops
this year, and of their condition 30, as well as estimates of the acreages under the later-sown cereals and hoed crops, and of the numbers of farm live
stock. The estimates are based upon
returns. returns collected from the crop-reporting
-correspondents of the office at the end of June. With regard to spring-sown crops, those issued a month previous, the areas of wheat, barley, mixed grains, and hay
and clover, being, however, somewhat less, and of oats, rye, peas and alfalfa, somewhat more than the preliminary
estimates published a month ago, when it was reported, as regards Eastern Candelayed through the lateness of the
spring. The area under wheat is now placed at $11,022,000$ acres, or 7,000
acres more than in 1913 . Spring wheat occupies $10,048,700$ acres, as compared
with $10,045,000$ acres in 1913 , and the area to be harvested of fall wheat is
placed at 973,300 acres, as compared with 970,000 acres last year. The area
under oats is placed at $10,814,500$ acres, Which is 380,500 acres more than in
1913 , when the area sown was 468,000 acres more than in 1912. Barley is
estimated to occupy $1,597,600$ acres, as compared with $1,613,000$ acres last year
rye 111,280 acres, as compared with compared with 218,980 acres; mixed
erains 463,300 acres, as compared with


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quickly a it is a positive antiseptic
and germicide. Pleasant to use; does and germicide. Pleasant to use; does
not blister under bandage or re-
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Hickman started this business seven years ago he
did not know a single foreign breeder. This year
we
 calks. The frequency with Thisch is a fact which which
from English breeders means that we can do busidrone by anyone else. No No one should import
dratt horses. beef or dairy strains of catle, or mut-
on breeds of sheep, without first getting full partiGOOD LUCK ■ Cotton Seed Meal
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Best reftrinces. Correspondence solicited.

THE FARMER'S ADVOCATE.
1405

Alberta, but a decrease in eManitoba.-
Oats in the three provinces Oats in the three provinces occupy
$6,106,000$ acres, as compared with
$5,792,000$ acres is $5,792,000$ acres in 1913, and barley $1,038,000$ acres, as compared with $1,025,-$ 000 acres. The net increase in the three provinces for the three crops is : Wheat, 27,500 ; oats, 314,000 , and bar-
ley, 13,000 acres; a total 854,50 acres for the three crops. The largest increase of area in the three provinces is for oats, 314,000 acres, which apparently shows that increased atcention is beThe acreages under the later-sown fereal crops of Buckwheat 354,000, as against follows: Buckwheat 354,000 , as against
380,700 in 1913; flax $1,163,000$, as against 1,552,800; corn for husking 256,000 , against 278,000 ; beans 43,830 , as against 46,200 ; potatozs 475,900 , against 473,500; turnips, etc., 175,000 , against 000 , and corn for fodder 317,000 , against 303,650 . It will be noted that the area under flaxseed is 389,800 acres less than last year, the decrease being principally in Saskatchewan, where the area sown to flax is $1,030,0$
than in 1913.
The condition of spring-sown crops at satisfactory, except in regard to hay and
clover, which, having becn affected by the prolonged drought, has a standard condition of 73.7, as compared with 90.2 receded from the high figures of June 1, and at June 30 their condition in per
cent. of the standard of 100 , Eaken as representing the promise of a full crop, was as follows: Fall wheat, 78.2;
spring wheat, 86.3; all wheat 84.5 ; oats, 87.3 ; barley, 86.2 ; rye, 84.7 ; peas, and pasture, 83.2. The condition of spring wheat is marked as high as 90 in Saskatchewan. Assuming the conditions between now and harvest will be equal
to the average of the past six years, 1908-13, the percentages of the standard condition for wheat, rye, barley and oats, represent the promise of yields per the case of spring wheat and barley by 3 per cent., and of rye by 1 per cent., and 1 per cent. inferior in the case of Estimates compiled from the reports of correspondents as to the numbers of farm live stock at the end : Horses, 2,947, 738 ; milch cows, $2,673,286$; other cattle 3,363,531; sheep, $2,058,045$, and swine, s,434,261. As compared with last year,
these figures represent an increase in the case of horses, but a decrease for each their estimates this year, correspondent were requested to take specially into ac
count the known large exportation to the United States of farm live-stock conse quent upon the reduction of the United States tariif last october, and althoug new breeding stock will largely make up ior deficiencies caused by these increases in the exports, it is apparent that the
diminutions shown were caused by such exports. Tabulation of the returns by
provinces shows that the decrease is provinces shows that the decrease
mainly in the eastern part of Canada since satisfactory increases. in the numbers of live stock are shown for the katchewan and Alberta.

Questions and Answers 1st-Questions asked by bona-fide subscribers to
"The Farmer's Advocate" are answered in thit 2nd-Questions should be clearly stated and plainly written, on one side of the paper only, and
must be accompanied by the full name and addrees of the writer.
3rd- In veterinary questions, the symptome 3rd-In veterne fully and clearly stated, other
especially must be
wise wise satisfactory replies cannot
4th- When a reply by mail is required to urgent
veterinary or legal enquiries, $\$ 1.00$ must be enclosed. Veterinary.

Re Stallion.
Young stallion used some in stud mas night. Ans.-All that can be done is give him
regular exercise or light work, a reason able amount of stud service, and wear
shield on him when in stable. Shields
Sor for this purpose can

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of the mares in toal to noted sires. A visit to our stables will be money in your pockets, as we have
the goods and prices that cannot be duplicated elsewhere. Myrtle, G.P.R. Brooklin, G.T.R. Oshawa, G.N.R.

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terial in this country. More size, more style, more quality, more character


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 Yes, they are here, our 1914 importation, and if you want a big young stallion withthe beet legs ankles, feet, action breeding and character you ever
mate at an price a poor
man can pay, come and see our lot. BREEDING AND QUALITY There never was a better bred lot imported, and their Clydesdales standard of character and quality is the highest and stallions and fillies G. A. Brodie, Newmarket, Ont. L.-D. Bell 'Phone

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| :--- |
| $\begin{array}{ll}\text { Prices and terms will please. } & \text { D. MCEACHRAN, ORMSBY from the large stock now offered }\end{array}$ |

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$1 \quad 3$For SALE-A few Shorthorn re-
males, a imited number of young coatswold eweed and and oumber of
Bersshires about hiree months. CHAS. E. BONNYCASTLE P. O. and Station Campbellford, Ontario Want to purchase thirty head of Clydc (recorded Six Shorthorn Bulls sixteen months old. Straight red or dark roans. One carload of Oxford or Shropshire year-
ling rams. Must be in good condition. J. H. PATRICK \& SON ILDERTON
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vice sows in farow and young pigs of eit her sex, both breeds. Quality and prices right. Geo. G.
Gould. Edgars Mills,
Ont., Essex
 Yoans, growth; good stan
dams.
Thomas Graham, R.R. No. 3. Port Perry, Ont. WOODLAND FARM Clydesdale AND Hackney horses
$\qquad$
Spruce Lodge

Getting Ready for the Shows
The preparation of stock for exhibition
at the fall shows is an important business. Little success in the show - ring ness. Little success in the show-ring
can be expected, even with first-class stock, unless the animals have been aught to make the best of themselve when brought before the judges. An
animal that has not learned to walk and animal that has not learned to walk and
stand well, or that is constantly fighting for his head or trying to break away, is likely to hide his best points, and pre-
sent his weaknosses in prominent form. sent his weaknsses in prominent forn
The dasire of the exhibitor is obviously just the opposite to this. He wanis his
animal to make the most of his good animal onake hee fautss as much in
ponts, and keep his
the background as possible. the background as possible. There is
much that may be done to turther this
mise object without in any degree ourstep
ping the line which divides fair exhibit ing from d.shonest faking.
schooling horses.
The training of a horse for show ought to start when he is a foal. The yount
ster can be haltured and accustomed t. being led about, walking and stopping as required. This early handling is hall
the battle, removing many of the difficulties batte, removing many of the difificul-
ties further training. Later on the youngster can be tal ght to move at
the wank, trot, or canter, as required,
for it is important that h, should
for for it is important that hz should
prompty assume any desired pace whe called upon in the ring. A heavy horse
of course, is not required to move at fast pace but it it is esssncial that hat hat
should walk and trot in easy well-hat should walk and trot in easy, well-bal-
anced style, the action being smooth and
true shen pulled up the horse should be taught at once to assume an attrac
tive pose, with the feet set well out be fore and behind, though without exagger
ation. It ooos much better if the ani
mal naturally falls into this position man if it does so only atter a lot of
than
shifting about by the attendant. Action
is important with all breeds, and is is imporiant
largely a matter of breeding. but it a be encouraged where delicitn: There are
various ways of teachn, a horse to pick
his feet up sharply, one being to use heavy shoes, and another to exercise in
a heavy clay field. The greatest difliculty is experienced with a sluggar
whose tendency is to slouch alcn Such a horse is best taken on a long
lead, the groom running before, whilst the judicious application of the whip by
runnr-up will induc: a smarter action. A active, high-spirited animal, is much
easier to show well, but he needs to be kept well in hand on a short lead
The trainng of cattle for the show-rin
Consists chiefly of trequent exercise on the
tead, so as to render them perfect
$\qquad$
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$\qquad$
$\qquad$
$\qquad$
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$\qquad$

-"You see, her first husband left her without a penny-and with three little children to bring up. You cin hardly blame her-can you?"

Tragic? Yes! "Of course," you'll say, "that won' be said of my wife if I should die suddenly." But stop a moment! How would your wife and kiddres fare if you should die to-day? What provision have you made for such a contingency?
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pion, Missie Marquis 77713 , Scotch and Scotch Topped, several of them show heiferh FRANK W. SMITH \& \& SoN Stand Sta., T. H. \& B. L.-D. 'P. Phone. 2, Sotland, Ont.

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thers very choice. Bred in my yreat prize-winning Marry Smith, EXETER STN.
strains. Only one bull left-a Red. 18 months old. Marry

Glenallen Shorthotns $\begin{gathered}\text { We offer for sale some } \\ \text { of the best young bulls } \\ \text { we ever bred, Scotch or }\end{gathered}$
$\qquad$
Salem Shorthorns either sex.
C.P.R. Telephone and Telegraph SHORTHORNS $=$ veveve

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3 bulls from 9 to 12 months, 2 young cows soon
to freshen. 3 two-year oid heifers choicely bred
and from heavy milking strain. Prices easy. Stewart M. Graham, Lindsay, Ont.
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con Ringleader (Imp.).
den 87383 , and Nonpareil Rams-


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 a sure call gettrs, Ond right good bull for gale,
JNO ELD
ent JNO ELDER \& SONS - Hemsall, Ont. 1854 MAPLE LODGE STOCK FARM 1914 Whorthorns and Leicesters
We have on hand for sale three extra quality
shearling rams also some very choice lambs of
both P.O. Adtress Miss mile east Lucan Crossing.
the fleece comes in for much attention. and lends itself to the covering of faults of form, though these come out readily
enough under the hand enough under the hand of the skilful
judge. The shears must be used fre quently on the fleece as it grows, right
up to the eve of the show appearance is expected.
Pigs lend themselves less to trainin for show than any other stock, but, for
tunately less direction. They must be driven in this can hardly be led. However, a good o some degree to make them tractabl early age.-Farmer and Stock Breeder.

## Questions and Answers.

 Miscellaneous.
## Proud Flesh.

I have a mare that got cut in the front of her ankle of the hind leg.
got a veterinarian at once and gave the case to him, and he has cut out proud
flesh twice. He tells me now to keep it clean and put nothing on it, so I am
not satisfied with him. Kindly advise not satisfied with him. Kindly advis
what to do for it. SUBSCRIBER. Ans.-1f proud flesh reappears, treat it with a feather, once daily until the flesh disappears. Dress it three times daily $\begin{array}{ll}\text { with carbolic acid } & \text { one part and sweet } \\ \text { oil twenty parts. } & \text { In addition to this. }\end{array}$ keep it clean.

Drainage Law municipal drain 160 rods tenefit in 2. How c'ose can they run two munic ipal drains on the one lot? Ans.-1. It is not clear whather you
mean a drain under the Ditches and Water-courses Act, or under the Municipa
Dra-nage Act. The word "Municipal" would indicate the latter, but the refer-
 courses Act, land cannot be assessed un sides or point of commencement of the drain. In the Municipal Drainage Ac there is no limit, provided the land
drains toward the ditch in question. 2. There is no limit as to the dis
tance between municipal drains, or drain under the Ditches and Water-courses Act they may be placed as close together as
the proper drainage of the lands in ques Ground Hogs Chewing Trees We have a nice young orchard set ou
and we are having some difficulty with ground hogs gnawing the trees. Is there what would be the better way to ex Ans.-This is not a common complaint but anathemas, for other reasons, ar frequently bestowed upon the ground-hog
Shooting, drowning, and poisoning, are correspond? As a destroyer, carbon bisulphide is con
sidered effective. It is a liquid, but when exposed to the air it is converted
into a gas heavier than air. Both the liquid and gas are highly explosive, an
should not come in contact, with fire Moisten a rag with the carbon bisulphide
and put it well into the den, then close
he outlet If there is more than one hole to th way to the bottom of the den and suffo sometimes effective when sprayed upon
the trunks of the trees, in warding of rabbits, but we do not know that it
will have the same effect on the ground hog. A wire netting, costing able
seven cents per tree, will protect the ing agan building paper is useful. If the fox terrier and gun are as effective as is
claimed, it might be the most practicable

One of the hundred or more poems about the Titanic disaster, received by the Kansas City Star, voices the refrain
that there are "no icebergs in Heaven." It may be suggested that there are no

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of weight.

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and the pitman shaft are provided with
roller bearinga TRUCK Wheels of truck have nearly double the
ction of the pole, and permit the machine action of the pole, and permit the machine
o be turned around at the end of the row horter if necessary Made in six-foot size for sandy land,

and seven-foot size for heavy, sticky soils. POTATO DIGGER \begin{tabular}{|c|c|}
\hline Canbefurnished <br>
wisth wine <br>
Thed grating <br>
hinged at the

 

\hline wide grate. \& iront and. is given <br>
an <br>
\hline
\end{tabular} an up - and-down

shaking motion by
the sprocket wheel
 Fore carriage, or double--
gauge wheel which strad-
dles row, insures steady des row, insures steady
running of the digger.
Wheels have an up-and-
DOES HIGH-GRADE WORE Has a perfectly flat blade and will not
cut the potatoes. JOHN DEERE SPREADER-THE SPREADER WITH THE BEATER THE SIMPLEST SPREADER MADE THE AXLE All working parts of the John Dee Spreader rare mounted on the rear axle. No
independent studs or shafts to give rrouble independent studs or shafts to give trouble.
No culuthes or chains ot get out of order. All strains are borne by the main axle, and
are not transmitted to the side of the box are not transmitted to the s.
or the frame of the spreader.
Power to drive beater is Power to drive beater is taken from the
rear axle and operates through simple pea rear axre and operates through simple gears
like those used on horse-powers mounted
on the rear axle within the ebater. LIGe rear axie within the beater.
DRAFT-FEW PARTS
There are two reasons why the John
Deere Spreader is the lightest-draft spreadDeere Spreader is the lightest-draft spread-
er. One is that the teater runs on roller
Another reason is that the John er. Orings. Another reason is that the John
beaeres
Deere
Sreader has so fow perts. It has about 150 less types of castings than the
simplest spreader heretofore made. It is (2) only natural tutcies. NO CHAANS only natural that the fewer parts a machine The EASY TO LOAD The John Deere Spreader is low down.
It is only necessary to lift each forkful of manure three feet. Thus the hard work of loading is done away with. Besides, the
person doing the loading can see inside the spreader at all times. Each forkful io
placed exactly where it is needed. It is thrown in gear by moving a heavy dog back until it engages a sto pat the STRONG STEEL FRAME Both the side sills in the John Deere Spreader are of high carbon channel steel,
with the channels turned to the inside,
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erested, write for catalogue of their breeding.
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SHORTHORNS A, wat way wive
their breeding is unexcelled. I have also a big offering in heifers and young cows with
calves at foot. A. J. HOWDEN
BROOKLIN, G. G. T. RUS. ONT. M YRTE, C. P. R.,
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Holstein-Friesian Association of Canada Application for registry transfer and membership
as well as requests for blank forms and all information regarding the farmer's most profitable cow
should be sent to the Secretary of the Association w. A. clemonos, s. S. Gerore. Ontarie

3 Holstein Bulls
R. O. M. and R. O. P. cows and their calves to choose from. Cly ponies and
2 two - year -old Clydesdale
R. M. HOLTBY, R. R. No. 4, Port Perry, Ont.
Manchester and Myrtle Stations.
'Phone

The Maple Holstein Herd
 Rer. No. 5 WALburn RIVERS

Questions and Answers veterinary.

Sores on Colt.
Colt three weeks old bites his legs above knees and hocks and has created sores. Ans.-There is some cause for the itchiness. It may be hen lice, if he has been kept near the chicken roost. He must be kept away from it. Make a solution of corrosive sublimate 15 grains to a quart of water. Heat this and give the legs a thorough washing, and when dry apply oxide-of-zinc ointment. Apply the
ointment three times daily afterwards. V Dislocation of Patella
Colt one year old became stifled last fall. My veterinarian blistered it frequently during the winter, but could not prevent dislocation. Can anything be done? $\qquad$ Ans.-All that can be done is to keep the colt as quiet as possible in a roomy box stall, and blister the front and in side of the joint well once monthly. perfect cure cannot be expected, but in
most cases the patient will improve, and most cases the patient will improve, and
be reasonably serviceable for slow work.

## Leucorrhoea.

shelfer shows cestrum, but she has been passing whitish matter, more or less, all winter. Would it be wise to breed
her ? A. C. D. Ans.-This is called leucorrhoea, or whites. It is very hard to treat, and it will not be wise to breed her until
cured. The womb should be flushed out cured. The womb should be flushed out gallon of a one-per-cent. solution of Creolin or other disinfectant, and she should be given 40 drops of carbolic acid in a pint of cold water as a drench thre times daily until the discharge ceases, Stiff Cow

Stiff Cow.
Six weeks ago cow became stiff in limbs and neck. Sometimes she appears
better for a day or two, and then bad again. She has failed in flesh.

Ans.-The symptoms indicate rheuma tism. Purge her with $1 \frac{1}{2}$ pints raw lin seed oil, and follow up with 2 drams salicylic acid three times daily. Bathe
the legs and neck well with hot water the legs and neck well with hot water
three times daily, and after bathing, rub all the joints well with hot, camphorated ters. Brain Trouble.
Seven-year-old dog in healthy condition, frequently takes spells of putting head to ground, rubbing and tearing al then ears, running around the a ance and yelp. After a few minutes he will be all right for a time. H., Jr.
Ans.-This is an affection of the brain, Purge him with 1 dram jalap and 5 grains calomel, and follow up with 5 daily. Feed on light, easily - digested food. Hernia-Puff

Hernia-Puff

1. Colt two months old seems to be
ruptured. Sometimes the scrotum is the normal size, and at other times as large as a man's fist. How can we fasten a truss ?
2. Another foal has a puff on one fore Ans.-1. Scrotal hernia cannot be
treated with a truss. It is highly probable that this will result in a spontansous cure before the patient is a year
old. Unless it continues to become gradually larger, get your veterinarian one, and can be performed is a critical
good vecterinarian a each of a iodine and iniment made of 2 drams and 4 ounces each of alcohol and gliteronce daily. If it begins to blister, dis-
continue its use for a few days and then
commence


PURE BRED SIRES
the live stock branch Dominion Department of Agriculture WILL PURCHASE during 1914, a num bur of Canadian-bred Stalliona, Bulls, Boars and Rams.
Animals must be of right type, in good breeding condition and of the following ages: Stallions, three to five years.

Bulls, not under one year.
Boars, not under six months.
Rams, not under six months.
All stallions will be purchased, subject to veterinary inspection and bulls subject o the tuberculin test.
Breeders in Eastern Canada having Canadian-Brod male animals for sale, tered or eligible for registration in the Canadian National Live Stock Records, are requested to communicate with the Live Stock Commissioner, Department of Agriculture, Ottawa.
The purchase of stallions and bulls will be made during the current spring months. deferred until the autumn.
Communications must state age and breeding of animal offered and price asked.-60271.

## LAKEVIEW HOLSTEINS

Senior herd bull-Count Hengerveld Fayne De Kol, a son of Pietertie Hengerveld a Count
De Kol and Grace Fayne 2nd.
Junior herd buill 2 Dutchland Colantha Sir Mona,

E. F. OSLER

BRONTE, ONT.

## FAIRVIEW FARMS


 Pounde RAGAPLE KE and oot of offcially tested cows. Come and look at them, and tho E. H. DOLLAR, Heuvelton, New York (Near Prescott, Ont.)

ELMDALE HOLSTEINS
 HOLSTEINS We have e chote lof of toul calves with strong batining ned e looking for. Write for extended pedigree, or, still better

| $\begin{aligned} & \text { grown fellow No. No. } \\ & \text { which are black nd } \\ & \text { looking fellow. No } \\ & \text { R.O.M. Photo on a } \end{aligned}$ | parts white, nicely marked and a large, smooth a 12 nearly all white, except tips of ears and for spots about neck. He is a large straight and GRIESBACH BROS., Boz 847, Collingwood |
| :---: | :---: |
| $\underset{\text { willowbank's }}{\text { herd or registered }}$ HOLSTEIN-FRIESIAN CATTLE Herd headed by King Korndyke Inka De Kol whose sire Pontiac Korndyke (No. 25982), is theworld's greatest dairy sire. Will offer a number of both sexes from this grandly bred young bull and from dam with official 7-day records from 16 to $25-1$ bs. butter in 7 days. $\quad$ Bell 'Phone.'.COLLVER V. ROBBINS, Riverbend, Ont., Welland County. |  |
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Handy and easy to use. Saves the milker many a nasty blow in the face from the cow's tail while milking. Sent post paid to any address, with full information as to
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Pure-bred Ayrshire and Pure-bred Frenc Canadian Bulls for Sale Merchants A. AHANE Building, Mocratreal, Canada
City View Farm for Record of Perform-
 James Begg \& Son, R.R. 1, St. Thomas, Ont
High-class Ayrshires-If you are want



[^4]Questions and Answers Miscellanenus.
Trouble Over Fence
Kindly neighbor's line fence a farmer should
planit his corn $\quad \mathrm{My}$ neighbor has corn planted a foot or so from the consequently trouble. Kindly advise. Ans.-If there is a lawful tence between any liability through the colts not ing the corn. Have the local fenoe -viewers in-
spect the fence, ond if it be of laxful spect the fence, and if it be of lawful
dimensions you are relieved of any obliimensions you are relieved of any, obli-
gations. It will be your neighbor's duty then to decide
cares to plant.

## Absence of Oestrum.

As a reader of your valuable paper for of the opportunity of asking a little ad-
vice. of a herd of twenty milk cows vice. of a herd of twenty milk cows,
which all freshened before
April
whth, Which all freshened before April 15th,
there are six that have not yet been in there are six that have not yet been in
heat. I salt them regularly every two days, and the pasture is fair. Could helpful towards hastening them, as I send my milk to a cheese factory in summer, and would like them to freshen as early
as possible. Did you ever hear a, as possible. Did you ever hear of using
yeast for that purpose yeast hor that purpose ? If so, woul
you kindly tell me how to use it?
Ans.-The yeast treatment is used where cows show estrum but do not conceive
when bred
This when bred. This is another condition
altogether, and always hard to alogether, and always hard to explain
or remedy. If the bull does not run with the cows, there is a possibility that some have been in heat unnoticed. However, ir the bull could be allowed with the herd, it might tend to bring on the do layed costrum. The only thing to do is
to feed liberally on a well-balanced $r$ a tion and wait, but many claim results from feeding 2 drams of nux vomica to
each cow three times daily. each cow three times daily. It stimulates the nervous system and
brings results.

Re Sheep Farming.
tions regarding sheop--farming. I I have a hundred-arro ha, all cleared but twelve cleared and fenced. How many sheep could I keep to advantage on same, and
grow ten acres or so of peas to feed the sheep through the winter, along with some hay and turnips

2. The farm is a good loam, and some of good well water. Would Shropshires | or cotswolas be best? $\begin{array}{l}\text { I just intend } \\ \text { going into grade sheep. Would count on }\end{array}$ |
| :--- | selling lambs in January, when I could make sheep - farming profitable on 10 acres? $M_{y}$ idea was to do all the work mysell, as sheep need very little care in

summer, and less care any time than summer, and less care any time than
other stock. 3. Would, you advise me going into same Ans. -1 . One hundred breeding ewe
should be the limit on such a place $t$ t insure a reasonable freedom from diseas and affectations common to sheep. There
should be a small area each year under should be a small area each year under
rape and cabbage, to carry the sheep over the autumn, when the pasture is usualy dry, In addition to this,
should have ten acres of clover, five acres of turnips and peas. It would be wiser,
we believe, to grow some oats in of so many peas.
on sheep pasture should be rotated the same as crops, else the
soil becomes unfit count of disease and insects. This is an important factor in sheep-farming.
connected with successful sheep-farming and advise that you start with twenty or twenty - five good ewes, and increase
corresponding to your local possibilities. Success will not depend upon the breed.
Either one you mention is Either one you mention is good, and if
you are a shepherd you must like one better than the dther; get that kind.
Grades will be all right, but use a good pure-bred ram.
3. If a man likes sheep, and will look after them properly, there is a good ways, and constant care during the lambing season. However, with any degree
of sucess, it should be a profitable method
it so.
$90 \%$ of gas engine trouble has always been due to faults of ignition

## The "Alpha" Engine

"The gas engine without batteries" Stops ignition trouble

THE ALPHA IGNITION EQUIP. ment consusts of a gear-diven, positively
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amount of
All AlPha Engines not only operate but sarr on this magoeto. It in hard to believe it unill you see it done. $\ln$ statring oven the largeest size the Ay-wheel is required and the engine goes righit to work, No fusaing or stew. ing over bateries, coils and spark pluge
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see it done you can do it yourself. No trick about it. If you have had any ex-
perience with gas engines you will readAlpha in this respect, and even if you don't know gas engines, an inspection of the AlphaE Engine will certeinly convince you of its simplicity of construction
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 Ayrshires \& Yorkshires ${ }^{- \text {Ruta formino difesest }}$ ALEX HUME \& COMPANY, - CAMPBELLFORD, R.R. No. 3 PMAPLE YHLA Oxford Down Sheep Yorkshire Hogs
Sired by Adonis Imp. 57495, and out of ewes that have won many prizes at
big and local shows. I have high-class flock headers and high-class ewe lambs, also shearlings, of both sexes. Yorkshires both sexes, any age. J. A. Cerswell : R.R. No. 1 : Beeton, Ont.



## Questions and Answers. Miscellaneous.

If you would be happy FAMOUS FLEURY PLOW, in your work use only a If you have never used a FAMOUS FLEURY PLOW, an ORI a No.. 13, or a No. 15A (One-Horse), you have wasted a have had LESS SATISFACTORY fesh-feed), have field than you SHOULD have had. But the old adage still holds true'IT'S NEVER TOO LATE TO MEND"-SO you can YET know what it is to use a plow LIGHIES
IN DRAUGHT, EASIEST TO HOLD, and doing the FINEST WORK IN THE FIELD-a

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PORTABLE ENGINES New and rebuilt portable engines. Solendid stock
of rebuilt portable engines, 10 to 18 hi.p., suitable of rebult portable engines, 10 to thr h.p., sutable
for farmers own use, silo filling, threshing or other


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H. Jack, Imp. 28515 , Champion boar at Toronto
 carge indivivual.
Our brod soi
Our brod sows, in view of the above, could not
but te of very hish class, combining great size,
true
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Large engilish berkshires Present offering: Boars and Sows all ages, bre
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Prices reasonable. c. J. LANG, R.R. No. 1, Hampton, Ont. HILTON STOCK FARM
 from tow, to six months, officially backed and ripht
good ones. R. O. Morrow \& Son, Hilton, Ont

[^5]Bred from prize-winning stock of England and
Canada. Have a choice lot of oung pips of both
sexes. pairs akin to offer at reasonable prices. Guaranteed Satisfaction.
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Duroc-Jersey Swine $\begin{gathered}\text { Twenty-five sows } \\ \text { bred for fall far- }\end{gathered}$
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best British herds. Write or call H. H. D. DNVIS, Woodvtock, Ont. Long-distance


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YORKSHIRES AND HOLSTEINS Soctur mion bis



Newcastle Tamworths, Shorthorns, and Clydesdales. For sale at once:- Two choice sows bred and ready to breed; choice lot of pigs nearly ready to wean; all from the choicest stock on both
sides. 3 a coice young bulls 10 to t12 months old, several heifers bred to my present stock bull Broad-
lands; all from splendid milking dams. One repistered lands: all from silendid milking da
Broord mare all of splendid
roorl mare, all of splendid quality; prices right. A. A. Colwill, Newcastle, Ont., L.-1D. Phon

## Repairing Strop

 Would you tell me whethèr a razor strop could be fixed which has a cut sliced in it, but not through it? It israther an expensive stroo. rather an expensive strop Ans.-You may be able to get some cementing material at your druggists. If not, we cannat be sure of any satis-
factory repair

Barnyard Grass Will you kindly tell me, through the columns of your paper, the name of the
enclosed grass ? enclosed grass ? Ans.-This is commonly 1 nown as barnpersistent way in which it will remain However, it is not considered one of the really bad weeds, but it gives trouble enough. Hoed crops are the most prac.
ticable way to meet it, and with thor ough cultivation it will soon lose its foothold, so it will will bocn lose its serious.
A Minor and Life Insurance 1. Can a young school-tacher, a girl
under twenty-one (21) years of age, be forced to stand by an agreement to insure her ine, she being away from her
legal guardian at the time, and from those whom she would have naturally consulted if she had not been over-per
suaded by two agents? suaded by two agents
2. Must she submit
2. Must she submit to it if she has signed the papers ?
3. If not, what steps can be taken to agents?
Ontario
Ans. -1 end 2.-Yes.

## Custom Spraying

1. Do you think it would pay to buy a
sprayer to do spraying for other people? 2. About what would be the right price to charge per tree for spraying, on the average, large and small
2. Do you advise buying ' lime-sulphur
solution ready mixed? 4. About what would be the cost per barrel of spray mixture ready mixed? .). Which would give the best satistac
tion, ready mixed or tion, ready mixed or home mixed?
3. What kind of a sprayer would yo 6. What kind of a sprayer would you
advise for doing custom spraying on a advise for doing custom spraying on ${ }^{2}$
small scale?
SUBSCRIBER. small scale? Ans.-1. We do not consider this a Ans.-1. We do not consider ind
profitable venture. If you have an orchard of your own if you have none, would pay you to rent an orchard and look after it rather than spray for other
people. We fear you will find it. a very people. We fear you will find it. a very
unsatisfactory enterprise unsatisfactory enterprise 2. We could not, under any conditions,
recommend a price recommend a price that will suit all cir-
cumstances. Trees vary so much in size cumstances. Trees vary so much in size
that it would not be fair to set an arbitrary price. For full-grown trees,
thorough spraying will requiré about seven gallons of the mixture for the first spray per tree, eight gallons of the mix-
ture for the second, and nine for the ture for the second, and nine for the
third. Knowing the proportions to mix the concentrated lime-sulphur with water,
it would be better to estimate after your spraying is dona the price that each pat-
ron should pay you. 3. You may find it more convenient to use the ready mixed lime-sulphe
tion. you between sixteen and eighteen cents per gallon. be any appreciable difference between the commercial and homemade solution
There is a difference, however, in the ease with which it may be applied. clogging
sometime trouble from nozzles clomer and sediment in the case of homemade lime-sulphur. However, it is very large-
ly used. 6. If you are only doing spraying on
a small scale it would not he profitable a sminvest in a power sprayer. If you purchase a hand-pump, we fear you will
not stav with the iob very long unless not stay with the job very long unless
you are of a persistent working nature, It is a hard enough job to do for one's
self. A power sprayer requires considerself. A power sprayer requires congider
able outlay and investment, which is liable to bring down your profits largely. The whole aspect of the affair has a very unfavorable complexion to us, and our

## 

## Now is the Time to Select Your

 COCKSHUTT


ONTARIO FOOTLIFT SULEY His poow solves the hired belp problem when Yoo begin your fall plowing AA soon the

 fean urumediately goee back boten worl
 to sod plow have oud ethe Ontario Footirit tromme



maple leaf gang
Tirs two the the horse amaliding gang is
 he can do ohis, work in just haif the time required
y a singlefurrow plow as well or perthaps a little

The steel frame bars on the Maple Leaf are
adjustable, in or out, for different widths. They

A Maple Leaf gang means good plowing quickly
done by one man.
done by one man.


CROWN GANG PLOW His is built along similar lines to the Maple
Leaf, but a a ittle heavier and stronger. $4 W$ We
 Strength is due to the frame, and the shape of mouldooards and points. The solid frame of support against plowing strains. The steering
lever, directly in in front of the operator, 隹es up



## for This Fall's Plowing

CHE thoushtful farmer is learning the great value of learning the great value of
specialization in his plowing, and how particular models of plows reduce the cost of plowing and time needed, while they bring much bigger harvests than plows not adapted to his land.

Not many years ago a man's farm was 100 acres bid and only 5 inches deep. His living was made on that 5 inches of surface. Now-a-days he is mining $2,3,4$ or 5 inches deeper, and bringing up a seed-bed of vifgin soil qradually, that becomes more and more productive.

For this change in plowing practice, the Cockshutt organzation is devising suitable plows. For reduction of plowing cost, suitable plows àre being made. To meet the scarcity of hired help, other plows are designed that need no hired man.

For each farm in Canada, farmed under any methods, there are Cockshutt plows to suit the farm soil and conditions of operation. Use the right plow properly, and harvest profits will greatly increase. The plow for you is in our catalogue-it is a Cockshutt Plow-now is the time to select it.

Write To. Us and tell your repet the exact plow yow you c a $n$ get the exact plow for your needs
from our extensive line, and are gnxious to give you all the information and assistance we can to enable you to buy to best advantage. Write as to-day on a post card-or see our agent.
 furrow 10 to 12 inches wide and 4 too 8 inches deep; handies nicely, and does ex-
cellent work. It is perhass the most popular plow
of its class on the market. Has plenty of strength of its class on the
for heavy worl.
Most farms need more than one style of plow-
at least a sod plow and a stubble or general purat lese one. See our and ant. Ask him to show you
different styles of Cockshutt Plows.


BEAVER GANG PLOW. WHIS three horse riding gang has the - wheels - uniform depth even on rough land, instead opposite each other. The Beaver is easily operated seat. A strong helper spring aids in raising the or In buying the Beaver you have the choice of four
bottoms; our "Judy" is narrow, cutting 7 Tins 10 -ins, wide and 5 -ins. to 8 ins. deep, the "Nip" is Wider, cutting 10 -ins. to 12 -ins. wide and
8 -ins. deepp and turning an especially good furrow;
and other narrower. With such a variety you get
equipm
A plow like this saves wages and reduces your
cost of plowing by a big fraction. A boy on a cost of plowing by a big fraction, A boy on a
Beaver can do excellent work. It has effected big
 clearance when drang of clods to make heavy draft.
groand - no draging in the wheels are dust-proof and carry Bearings in the wheels are dust-proof and carry a
large quantity of oil.


TWO FURROW "STEEL" DISC PLOW.
HIS all-steel plow in one to five furrow sizes, turn on large bearings properly protected
from dust and grit, thereby insuring easy running and long life.
A Disc Plow handles hard, dry or sticky land
that an ordinary mould board plow wouldn't touch. We do not advocate the use of a Disc Plow in any
other kind of ground. The action of the discs is other kind of ground. The action of the discs is
to braeak up the ground so it can absorb moisture
for cultivation II you have land that you cannot for cultivation. If you have land that you cannot
handle satisfactorily with your mouldboard plow hry a Cockshutt Disc Plow and youllil get the work
done properly.
The discs aré highly polished and are kept clean
by large adjustable scris by large adjustable scrapers which can be regulated
to suit the exact condtions of plowing. Heavy
coil springs assist in raising and lowering.

Sold in Western Ontario and Western Canada by COCKSHUTT PLOW CO, Limited, Brantford, Ont.


[^0]:    N (aingim
    

    ## RICE'S PURE SALT

    The best the dealer handles.
    It's good.
    North American Chemical Company, Limited GLINTON, ontario

[^1]:    The farmer can control tos a great extent the amount of moisture his land gets by good cultidistricts have this season, he has no real remedy However, the results of good cultivation are
    more marked in a season like this son of plenty of rain.

    The grain farmer stands to have a hard he another good chance for the mixed farmer eed may not be too plentiful, but the rough crops. This fellow that has all his the grain basket generally is not long on the market one takes him only a short time to spend his anchor.

[^2]:    SHOPPING AGEN

[^3]:    him word to call another night, but either. Why, Corinne, you ought to the ksind of a man you can treat like Bee him ! You might as well ask old
    Bishop Gooley to lead the german." that. He does me a great honor to ing to see a a Jost think of his com"Well, bring him me-and he so-", Her eyes began to flash: she hed tried all the arts she knew-they were not many-but they had won heretofore. "Mother will take care of him. A good many of the girls' fathers come for
    them." "Bring him downstairs to a dance!" dack answored with a merry laugh. "He

    Bishop Gooley to lead the german."
    Jack's foot was now ready to mount the lower step of the stairs. Corinne bit her lip.
    "You never do anything to please me!" shs snapped back. She knew she
    was fibhing, but something must be done to check this new form of independence -and then, now that Garry couldn't come, she really needed him. "You don't want to come, that's it-" She was facing him now, her little nose high in the air, her cheeks flaming with
    anger.
    "You must not say that, Corinne," he answered in a slightly indignant tone. height-toes included, not very highs but all she could do-and said in a voice pitched to a high key, her finger within a few inches of his nose:
    "It's true, and I will say it The rustle of silk was heard overhead, and a plump, tightly-laced woman in voluminous furs, her head crowned by a picture hat piled high with plumes, was making her way down the stairs. Jack looked up and waved his hand to his
    aunt, and then stood at mock attention like a corporal on guard, one hand
    raised to salute her as she passed. The raised to salute her as she passed. The
    boy, with the thought ot Peter coming, was very happy this afternoon.
    "What are you two quarelling about?' came the voice. Rather a solt voice with a thread of laziness running "Jan the Jack's too mean for anything, mother. He knows we haven't men nough without him for a cotillion, now that Garry has dropped out, and he's been just stupid enough to invite some
    old man to come and see him this even ing." The furs and picture had swept down

[^4]:    FARNHAM FARM
    The Oldest Oxford Downs Established Flock
    Our present offering is an imported 4 -vear-old
    ranm and a few first class yearlings for fockheanders:
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     HENR $Y$ ARKELLL
    \& Shone Guelph 240 ring 2.
    Guelph, Route 2,
    Alloway Lodge Stock Farm Every man engaged in mixed farming
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    Southown is the ideal Southdown is the iteal mutton breed, and conditions in this most adaptable to
    circular and dethis country. Write for
    ROBT. MCEWEN
    Byron, Ont.
    Oxford Down Sheep $\begin{gathered}\text { Shorthorn Cat- } \\ \text { tie }, \text { Yorkshire }\end{gathered}$
    

[^5]:    PINE GROVE YORKSHIRES

