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## Keep up the war on weeds.

Holding fast in adversity rather than hurrahing is the final test of loyalty.

It takes more than an hour-fast clock to get some people out of bed in the morning.

The one hope for the corn crop is cultivation. It got a late start, give it a boost.

The closer the agricultural college is to the farm the better for college and farms as well.

There is almost as much in feeding as in breeding. See that the calves get the right start

Save all the hay possible in good condition. Ontario will need all the feed next winter.

Canadian agriculture asks for the biggest available man to Gall the late Dr. C. C. James' place.

The biggest lesson that the world ought to learn from the war is how not to let it happen again.

Let us not slacken our efforts at home while the men at the front are smashing the German lines.

Theodore Roosevelt may never again be president of the United States, but he sets its pace and policy.

It is reasonable that an aged beef cow should show with calf by side. Then everyone knows she is a breed-

Beef cattle reached the , unprecedented price of $\$ 11.10$ per cwt. on Toronto market one day price of Breed more good beef cattle.

All indications point to another heavy crop in the West this year. Ontario can grow the roughage and the western provinces the concentrates.

No one should show a poorly-fitted animal. Thin stock is not a good advertisement for the owner, the breed or the fair. Put on the finishing touches now.
"It never pays to count chickens before they are hatched. The German flag was, according to the Kaiser, to fly over Verdun July 1, but it didn't.

Hoe the mangels and turnips clean the first time. Work may be so pressing later on that they will not get a second hoeing. Work well done is twice done.

It seems strange to the man who is not a farmer that when prices for any farm commodity are high the farmer has little of that particular article to offer.

The farmer of Eastern Canada should stick closer to live stock than ever. His success or failure depends largely upon the numbers and kind of stock
kept. .
weedy and neglected roadside soon means a dirty farm. If the municipality fails to look after the weeds on the road, each farmer should see that they are cut adjacent to his property.

The Farmer's Advocate

AND HOME MAGAZINE

THE LEADING AGRICULTURAL JOURNALEIN THE

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## JOHN WELD, Manager. 7

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9. Wheinin repl by Mail is regurrd to Uren





 13. 14.
 -THE FARMERPA ADYOCATE OT


You may make a good bargain by the dollar, but if the drover is "done" he'll likely get even next time and maybe a little more. A fair price per pound and fair weight is all anyone should ask.
In selling breeding stock, cattle and horses, have and out. Describe them sos you them in the stall lars as to sureness in breeding and quality of progeny f any, and do not hesitate to show the stock that is not for sale as well as that offered. You know, it
always pays to treat other people well. You cannot afford in business, the live-stock and farming business not excluded, to offend anyone through lack of courtesy or shady dealing. We know that farmers' wives have, in the past, been imposed upon to a certain degree by agents and travellers of one kind and another dropping in for meals or lodgings at an inopportune time. Make a distinction between the man who is of use to your business, and the one who is using you only for the development of his own business. Be a good host to the man who buys your goods or even comes to buy them. It pays.

It is a fair subject for consideration whether or not in planning to meet the future industrial activities of present enemies, industrial efficiency should not deserve equal or greater reliance than a trade-strangu-
lation system, more then likely to be the precursor of another era of blood.

Canada is a big country capable of absorbing great numbers of newcomers, but those in charge
should be careful that those coming to our shores are should be careful that those coming to our shores are
of a desirable class. One Britisher is of more value than a score of foreign enemies.

Judging from some of their essays now coming to this office the boys and young farmers are finding
many valuable ways for their fathers to increase the returns from their farms. Keep up the good work boys.

## Nature's Diary

by A. b. Klugh, m. A.
Insects which are very troublesome pests of man and cattle over a large, part of Canada are the Buffalo
Gnats, or "Black-flies" as they are often termed. The Gnats, or nack ane as they are often termed. The damage done by these insects results from their painfur
bites and the loss of blood wh.ch ensues, and when they are abundant they sometimes cause the death of live-stock.
These insects belong to the Genus Simulium, the species which is apparently most abundant in eastern the Mosquitoes and with all the blood-sucking Flies, it is only the female that bites. In the case of the
Buffalo Gnais, it has been proved that it the taking and digesting of a meal of blood by the female that the eggs in her ovaries come to maturity:

The eggs are usually deposited on grass. blades whic are bent over and trail on the surface of small streams,
though they are sometimes laid on sticks, stones and th leaves of herbs just beneath the surface of such streams. The eggs adhere to the leaves, etc., by a creamy viscous matrix entirely covering the eggs. A single female lays about five hundred eggs, depositing them at abou from seven to twelve days, the average tims hatch in days, and during this period they must be kept con tinously moist or they fail to hatch.
runnine larve of simulium are aquatic and require running water for their development. They ar (See Fiq 1) These fin fan-ike organs at the head end micro-organisms on which the larvee feed and them into the mouth. On the second serment of the thorax is a single pro-leg with a sucker-like disk at it extremity, and at the end of the body is another and larger disk. It is means of these disks that the of what are known as rectalin takes place by mean of the rectal walls. These gills are fill are exth tubes and air-tubes, and can be withdrawn into the


## Fig. 1-Larva of Similium.

Fig. 2-Similium in its case on
From twelve to sixteen hours before ${ }^{-1}$ hatching the young larvæ are in an apparently free condition within movements of the head and body and the shell suddenly splits open and the larva tumbles out. It immediately attaches itself by its pro-leg to the nearest object waves its posterior end several times, evidently to clear disk. It then commences to feed on the matrix surrounding the eggs and on adjacent micro-organisms By means of the silk glands in the mouth the larva On being thread to hold it in position in the current on being suddenty disturbed, or on the diminishing stream steadied by the silken thread which they have attached to some stationary object, and seek a more
favorable location. A heavy rain causing a sudden aavorable location. A heavy rain causing a sudden increase in the swiftness of the current will often en-
tircly change the distribution of the larve, by washing tircly change the distribution of the larve, by washing
them down stream to become established lower down, and this fact is of considerable economic importance, as it may account for the sudden appearance of Buffalo Gnats in localities usually exempt
The food of the larve is entirely microscopic The time spent in the larval stage is usually seventeen days. Before changing to a pupa the larva spins itself
pocket-shaped case of strong silken threads Fig. 2), and on pupating the pupa attaches itself to the
inside of this case by means of strong hooks on the abdomen. The operation of spinning the pupal case The pupation takes from forty-five to sixty minutes. and the pupal stage lasts from eighty-four hours to nine days depending upon the temperature of the water, When ready to emerge the adult insect exerts a strong pressure on the head end of the pupal skin, which splits,
the adult at once rising to the sufface of the water and taking flight. In Canada there are three or four generations of Buffalo Gnats annually, while farther south there are

The chief enemies of the Black Flies are certai parasitic worms, Caddis-fly larvae, nymphs of Dragon-
fies, and small minnows, all of which prey on then ines, and small
From this study of the life history and habits of the Buffalo Gnats we can see that they are very difficult pests to control, as the entire elimination of surfac running water from a locality would be the only means
so that the best we can do in regions where they abound so that the best we can do in regions where they abound
is to prevent them from biting us by using Nesmuk's is to prevent them from biting us by using Nesmuk's
Dope (Oil of Pennyroyal Castor Oil Dope (Oil of Pennyroyal, Castor Oil, and Oil of Ta in equal parts) and from biting our cattle by spraying
them well night and morning with pine tar and coal oil.

## THE HORSE

## Lameness in Horses.

## (Concluded.)

## General Treatment of Lameness,

In concluding this series on "Lameness in Horses" it may be wise to briefly mention the general principles The first, and most important necessity, is to make a correct diagnosis. This, in many cases, even to the veterinarian, is a difficult matter, but to the it be done, treatment is practically hatime, unless may be calculated to do harm rather than good The next step is the removal of the cause, if that be possible, and of every circumstance calculated to aggravate the effect. After these points have been mand attention in order the the limb and foot deremove pressure and tension from the efforts to may be assisted. If a lame horse stands with the foot of the lame limb flat upon the ground, that is, touches the ground with both toe and heel, and if the feet are good and strong, all shoes should be removed, in order that he may stand upon his feet, and be able are poor and weak, they should be protected by light, is likely. Simple cases of lameness, where recovery to this method, but in all cases days, are exceptions
ti is probable the patient will require a considerable period of rest, the plan will give good results. heel, to stand upon the toe-the posititie elevate the that the affected parts are thus polieved and pain lessened, it is well to have him shod with a highheeled shoo. This will, in many cases, afford some degree of immediate relief; but if, on the contrary, he is inclined to throw his weight upon the heel, a position in which the patient endeavors to stand should be carefully noted, and endeavors made to so far possible, assist him in assuming this position. In cases where he cannot bear any weight upon the diseased limb, it is generally wise to place him in a sling. It must be remembered that in the use of slings, the patient must not be entirely suspended.
The sling must be only sufficiently tight to enable him to put all his weight upon the three sound legs. and so that when he eases weight upon these he will be suspended by the sling, and will have no difficulty in shifting the weight from the sling to the limbs when he wishes to
rest as possible, the effects as complete a state of
will wi command attention. These are inflammation, pain, and, in most cases, more or less swelling. These are the results of the injury, and, except in cases or badly crushed involved have been torn, lacerated in the early period of the lameness morbid conditions to appreciate this, as by proper attention to the case alterations of structure may be prevented; while If it be now neglected, the patient worked for a day changes, or otherwise improperly treated, organic changes may ensue, rendering the lameness incurable For the reduction a long - continued applications of either heat or cold to the parts are very useful. Opinions differ as to which ness and pain more quickly, while cold, by contracting ends to vessels and thus stimulating circulation howe reduce swelling more quickly. There is, in using either heat or cold, and the choice is often matter of experience. In all very painful affections the writer prefers hot applications, either water or poutices a a few days, and when the pain is subsiding making a change to cold and bandages to encourage Purgatives are useful
ameness in most cases. They tend the frrst stages of the inflammation, and, of course, the diet should be light, consisting of bran and hay, and in cold weather it is good practice to remove the chill from tion have subsided, if lameness still rem of inflamma plication of counter irritants is rendered necessary These consist in stimulant liniments, blisters and the in degree, in rapidity and in ine remedies differs only in degree, in rapidity and in permanence, not in the of counter irritation originally produce. The theory inflammations could exist at the same tim two same region." Hence, if inflammation existed in

July 13, 1916

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THE FARMER'S ADVOCATE.
more or less deep-seated part, and an artificial in-
flammation was produced in the skin and other tissues covering the parts, that the external inflammation
relieved that of the deep-seated structure relieved that of the deep-seated structures. This, of course, is irrational and unsupported by evidence,
The general theory now accepted is that the superficial The enerai theory now accepted is that the superficial the absorbents, and tends to remove the exudate and restore the parts to their normal condition.

## Shire Horse Breeding and Shows in England.

## Editor "The Farmer's Advocatr

During recent years Shire horse breeding has been ne of the mainstays of many small farmers, and pursuit, given suitable conditions, is now generally recognized. The farmer who breeds a good type of Shire foal can rest satisfied that he is breeding stock which will grow into money, and upon which
he will see a profitable return by and by he will see a proitable return by and by. Despite
the increasing adoption of mechanical motive power the increasing adoption of mechanical motive power;
the demand for heavy draft horses for town, as well as country road work, does not appear to have been prices being as high for this they have been. This demand affords a highly remunerative market to breeders of Shire and Shire-
bred horses, which breed practically monopolizes the heavy draft-horse market, excepting in the north
of England, where the Clydesdale now comptes with it to some extent. Speaking in a general way, it will, as a rule more profitable for tenant farmers who breed Shire horses to cater for this market than to try to rear stallions for stud purposes. Shire fillies, of course, always possess an intrinsic breeding value, apart from their usetulness as working animals, but not, so in
the case of colts, and breeders will be well advised to exercise the greatest discrimination in keeping the latter entire, with a view to selling them as stallions later on. As is is, there is an unfortunate tendency among some English Shire breeders to raise too many
stallions, and the stallion market is in consequence decidedly overstocked, excepting as regards the very bect class of
been demand.
keen demand.
Tke breeder should always bear in mind that a and in that case be comparatively unsaleable and not worth much-because there are too many of that such command a ready sale at a good price, to say nothing of the fact that at1 the risk and trouble which are inevitably connected with the rearing of The practice of keeping indifferent or insufficien. promising coits entire, no matter how well bred the general grounds and in the interests of the Shir breed as a whole, because the use of such inferio only do harm, but from the breeder's point also, and looking at it merely from a pecuniary point of view, it is, as has been shown, decidedly the best policy to geld all but the very best and most promising colts.
more progress oft probably has the Shire breed made more progress of recent years than as regards the im-
provement of the limbs. These have become tougher prover, and sounder, and the joints stronger and bigger than was formerly the case. It is, needless to say, a most important requirement in heavy draft
horses used for street and road work that their legs and feet should be possessed of good wearing capacity, and buyers of this class of horse always attach great importance to this particular point
Despite the fact
has already Shire horses, there still remains a good deal of room for further progress in this direction, and breeders tions, laying special stress both upon rood conforma tion and upon soundness of the legs and feet in the breeding stock. A sound, strong and good set of
legs and feet are not so easily got, and require to be very carefully and diligently bred for, it being most attention on this point. The Queen visited the Richmond Horse Show,
held in mid June, in aid of the Star and Garter Fund Her Majesty was received by the Mayor of Richmond, andand Duches $G$ Alexandra arrived Manuel and Queen Augusta Victoria were-also present. Judge Moore's horses were missing, so were Col. Sir
Adam Beck's great hunters. In the open hack class both quality and quantity were excellent. No fewer than 24 were sent in, and a well-known prize winner,
Captain. Faudel Phillips' Chocolate Soldier, took In the Riding-Pony class Lady Dalmeny took
first prize with Forward Boy, of polo type and polo bred. Among the Shetland of pony exhibe and polors Mrs.
Gordon Colman and Mrs. Etta Duffus were the most In the class for harness ponies, W. W. Bourne took Fame, both ponies of fine action and great goers.
In the open class for single harness horses appeared
some of the biggest prize-winning horses of the day
Premier honors
were disputed
between McCal Bremier , honors were disputed between McCall
Brothers' Lady Champion and Philip Smith's Adbolton Black Prince, and the red rosette was not awarded to the former until a referee had been called in. Both are fine movers with pronounced action, but Lady Champion appears to have more pace than Mr. day and whe, who has been a great winner in his day, and who still goes with wonderful fire. first and second with Bonnie View and Winans was reserve with Discord, and then came a very, and class of double harness pairs in which Philip Smith tork first prize with Queen of Ayr and Melbourne
Princess, and Captain Quintin Dick was second with Princess, and Captain Quintin Dick
Sprightly Spark and Acclamation.
Sprighty Hunters filled and Accamation. three classes drawing 72 entries. In Hunt program less than 14 stone (which had an entry of 27 ) the
winner winner, J. H. Stokes \& Son's Red Denis, stood right by Wales, all in the the one Denis Richard, dam
He is full the is full of quality, stands on a short Buad Bor paces Harkaway was second. He is pace. W. Cheney's bas, with a capttal look out, and he gpallops well and
fast. very strong one of Hunters up to 20 stone was Tick was first. He is a short-legred Drage's Grey with capital bone; his shoulders are well placed, and he is a fine mover, both in fast and slow paces. Mr. Drage was also second with Dorando, a bay with style and manners.
compliment to the ladies, who have been so energetic in the management of hounds since the ene engetic of war. There were twenty-five entries of whio Redreen put in an appearance. Lady Dalmeny' Redmond, ridden by his owner, won. Redmond is and fast, and Hunter, full of quality, a fine galloper, Harkaway made a good second. Challenge Cupery best aHunter went to Lady Dalmeny's Redmond with Drage's Grey Tick reserve. The Gold Cup for best hack at the show went to
Captain Faudel Phillips' Chocolate Soldier, and this Captain Faudel Phillips' Chocolate Soldier, and this
being the second year running that he has won, the cup is now Captain Faudel Phillips' property.' Re
serve went to Lady Dalmeny's Forward Bon


A Farm Horse Barn.
horses separate from the other stock. This is H. M. Rolph's
barn in York Co., Ont.
Single harness horses, any weight, to be driven by out owner or a member of his or her family, brough Park Carnation, a level, good bay, with fine action was the winner. Park Carnation was first and champion in harness at the Royal Lancashire, first in harnes at the Rutland, and lard at the and Miss Brocklebank's rod-looking grey as second third. The class for tandem teams of any heitic was a great one with ten out of the twelve entries forward. P. Smith's. Queen of Ayr and Melbourne Princess were the winners. Challenge cup for fourof the day. Cup and gold medal went to $W$ of the day. Cup and gold medal went to W. A.
Barron's chestnuts, a team which it is scarcely nece sary to say is well put together. They are well
balanced and match well in also an and match well in every respect. They are for the best double-harness horses, 15 hands 3 inches and over Myram and Cadon's stable in rare form. Cadogan fine show as a pair, were first, and their stable com panions, Cadogan Princess and Mayfair Maid, made
an excellent reserve.

The horse barn illustrated in this issue is thirty feet five and one-half feet, and one good, big box stall. Iy one corner is a harness room, and overhead is a loft
which will hold eighteen good big loads of hay and four loads of straw. It is well ventilated and has plenty of
light. H. M. Rolph, the owner is well and plans to preserve it by keeping it well painted

## Editor "The Farmer's Advocate"

 in no other country in of breeders are reaping the benefit. But it is to market that all plans to preserve it by keeping it well painted.loked at my entry which
,Was worthy two like the was largely due to his own fault. As perhaps his defeat he was one of those "cranks," who sacrifice as not for some fancy point. His cattle must have hair toes, while his pigs must have a ceortain to nose and tails,
thile his pigs must have a certain curl in their should first steer clear judges' approbation, the breeder market requirements as a guide to developing the utility
side to the fullest necessary attention to fancy possible, giving only the meat-making animals is to produce an -not fat-and bred to mature early, Const flesh is important and is indicated by a smoothness of form devold of wiat hook bones, bare loins, waspish heart girth and squeezed-in chest. If the breeder is widewill present itself in the show many a practical lesson feeding. This is a matter of vital importance will be impressed with the fact that an animal to win in a present-day competition must not be too heavily of flesh , an suality vigor. Rather are these desirable to to constitutional by an abundance and variety of green feed promoted noticed by the skin and hair of cattle or the sheep's
Then there is the art of exhibiting to advantage its appearance and is a legitimate wol difference in ts appearence. That however is in ot catching cultivating of this habit for show purposes is likely the extend itself to an everyday practice.
Elgin Co. Ont. again. The juages neve

## LIVE STOCK.

## Influence of Stock Shows.

The show-ring is an important factor in live-stock the breeder than to have his animals win a red ribbon in keen competition. To accomplish this he has exercised his best judgment in selecting and fitting an skillful and the inexperienced. It mould for the less if the development thus effected could be presented stat istically. It is, however, coming to be preserety well settled fact that a strong relation exists between the number and class of the competitions and the quality
duced so many high-class animals of so many differ breeds of horses, cattle, sheep and swine any are found in Great Britain. From early summer until autumn she is a country of live-stock shows. Ther have been and are being learned lessons in the ideals of
excellence at the ringside which the excenence at the ringside which the exhibitor in his
own stables might take years work to master. True, great forward movement been due to individuals. 'To Bates, Booth and Cruickshank must be attributed the credit of a remarkable progress in Shorthorns; Hugh Watson and McCrombie and others still living, are building sneep circles, heads of improved stock of are building. up tountain-
cater. It is the customer's likes and disilike that are required to supply the necesary types evolved that star that actuated the earlier master was the guiding while their work was suitable to the existing cers, and it would be a long way from passing muster now. In this strenuous age the constant changing of ideale goes on in breeding operations as elsewhere. While may be building up excellent over two continents cationally, the effect produced fo the herds, eduand file of breeders is comparatively insionificant provides that this necessary knowledge is the show ring
to them, together with the information as to the from which they canement rrom which they can draw
the blood which will best suit their purpose,
The inference,
cle ar. Eyety breeder should be an exhibitor,
for in such a course is mbraced the very essence winning a share of the prize money there is But in the trial satisfaction. the puttingof one man's skill and breeding against all comers is the great
incentive which should be the spirit in which showing is followed. We have
frequently heard pointed exhibitor a remark, II will never exhibit at such and such a show

## A Lifetime With Shorthorns.

## Some Sidelights on Breeding, Exhibiting and Live Stock Sanitation.

 are maintaining a half-way dual-purpose herd. Many have not comprehended the situation and are pressing on, eliminating the dual qualities for which Shortfor the Herefords and Aberdeen-Angus. In this latter classification is the Meadow Lawn Shorthorn establishment, owned by Leslie Smith at St. Cloud, Minnesota, just a few miles from St. Paul, the first and feeder of continental reputation. He is a breeder with the inanimate but the warm living; he is one of nature's artisans, not self made, but born with the responds to his touch. He is a Scor natural which deenshire, and at 17 years won the Scottish Aberpionship for steer feeding at the Smithfield Show He served under the great breeder, Wm. McCombie, of near Hamilton, Ontario near Hamilton, Ontario, at the age of 21 , managing a
500 -acre farm stocked with Shorthorns. He for a time in Manitoba, and when in 1895 N farmed Clark, of St. Cloud, offered him good wages as herdsman he accepted, and to-day through the current youth he set out to rank with the best cattle fitters in the world, and when this distinction was attle fitters he determined to hit the top rung in breeding cattle. Breeding at Meadow Lawn.
Leslie Smith, as he is known, views the dual pur-
ose with scepticism and has won his laurels American foremost shows judged almost exclusively from the beef standpoint. His honors at the Chicago won the grand championship in females four times and grand championship in bulls three times on individuals bred and raised on the farm. In addition numerous groups and individual prizes have gone down to his
credit. "What breeding system did you follow to get these
noted show winners?" was requested, to which remarked: "In our breed operations we have alway tried to get the best stock bulls we could find that
we thought would nick with our females, and
the sire may be the sire may be more than half the herd although
have good cows if extra choice. In 1900 I expect to produce anything
lookout for a stock bull, and after to Britain on the lookout for a stock bull, and after seeing many berds
finally got word of a red bull north of Finent to see him, but the owner refused to sell The bull was Red Knight, which alterwards sired the winning get at the International in 1903 , the grand
champion Lady I)orothea at the Lewis and Clark Show also Welcome of Meadow Lawn sth, second aged cow
at that show at that show, and our grand champion Melcome
of Meadow Lawn ! Mh. Red Knight sired Marsh
Knight, which bull has left his mart Knight, which bull has left his mark as a Mreeder,
being the sire of two grand champion females at the International, Dorothea 2nd and Alice of Meadow
Lawn, winners in 1909 and 1907 respectively for the
Meadow Lawn establishment one, and not only produced khampit proved a good great impression on the whole herd. Lerlic Lest made a
came a noted winner in femalec, so

A Market Topper.
A Market Topper.
This steer, with his mate illustrated cn this page was bred and fed
by Wm, Yeoo of Huron Co, ont., and recently sold at the
Union Stock YYard, To
cess the two must be combined. In the case of the Meadow Lawn establishment it is the team work It breeding and feeding that has secured prestige It has been the natural art of the proprietor in manipu lating things natural that has resulted in the raising selection in females is based upon individual merit in conformation, blood lines and in performance. He closely observes the progeny and has run across certain mated properly producing show some of them when commercial stock. He cited one instance of a cow that cost him $\$ 700$ that produced nine calves, averaging when sold around $\$ 400$. This cow had given in gros
receipts $\$ 3,600$; they were good ones , 600 ; they were not show calves but yet We strolled through the barns and over the farm and saw the 116 pure-bred Shorthorns, of which
about 60 are breeding females. In a small field o


Another Prime Stee
Averaging, with his mate, 1.852 Prime Steer. Mr . each, this steer, also fed by
Mr. Yeo, brought $\$ 11.10$ per wet. They were luxuriant grass was his new herd bull, Craven Knight,
purchased in lowa and sired by The Gallant. He is a two-year-old. His breeding is good and in conforma tion he is thick, smooth and with strong character.
The breeding cows and show chat the barn for their evening feed. This barn is 60 by the cect. It is arranged for two rows of cows facing is ideally, suited for his conditions and malf pens. It there are throughout the United States who have
adopted the samic system. The calves in thoir pens adopted the same system. The calves in their pens
are turned out from each side to their respective
nurse cows or dams as the are turned out from each side to their respective
nurse cows or dams as the case may be. Almost
every cow was a big, rugged individual and feminine
in type and character. Some of them were on the thin side nourishing their calves. The strain that quested show outstanding merit in his herd was requested. He replied. Dueness of Gloster." He wen mostly solid reds and almost identical types. fact, after observing an individual of this strain on could "spot" the rest without assistance. Most of these cows had been sired by Marsh Knight and Ringmaster, while the young calves that were turned Knight. Smith's son fed the stock and was paring several calves for the futurity classes at the Chicago International this fall. "Backed as a calf,", the ultimate cow depends upon the care fed so as to attain the maximum development which their inherent characters will allow." Thus the calves were turned out from the pens to suck being prepared for show had the preference Thos privilege was afforded up till eight months of This In the meantime a feed mixture of bran, corn and crushed oats in equal proportions, along with pulped mangels and a little oil cake, was put in the calf-pe
mangers and the calves eventually their pens to complete their meal In this way int are fed three times a day, and put on pasture in the forenoon and for a while at night. These pastures ar preferred a little bare rather than luxuriant in order to rorce them to consume more grain. We refrain from
giving the amount of feed since this must according to individual animals, and the success or failure in feeding depends on the breeder's eye. On Meadow Lawn Farm they insist upon not giving more feed than the cattle will clean up thoroughly relished, which requires a feeder's knowledge of in dividuality. Shorthorn Prosperity.

In the house after meal time we discussed numerous questions ranging from blood lines in Shorthorns to and came back to them, trailed in a story occasionall and wandered on the same as a bunch of farmers would on the nail kegs of the country store. From this conversation considerable information emerged. "How is the Shorthorn business in the "United States?" was are not enough bulls to of fact," he stated, "there selling in a commercial way from $\$ 150$ to $\$ 1,000$, the average would be from $\$ 250$ to $\$ 300$. Two shipments of bulls have been made to Argentine Republic wh the Shorthorn Association, 14 or 15 in February, second lot of 18 shipped in April will be sold in Aug; a in that country." As in other beef breeds the Shorthorn is having a prosperous time. The American Association is endeavoring to control some of the
South American business. These South American business. These Latin states are thousand but thousands for good individuals. In the past all of this business went to Great Britain. The Americans are endeavoring to divert some of this trade a start in doing so.
The American attitude towards Canadian Shorthorns is surprisingly good. Almost every Shorthorn
breeder met stated, "Canada is a great Shothorn breeder met stated, "Canada is a great Shorthorn country." Mr. Smith remarked Canadian-bred ShortStates than the American raised, and Shorthorns ime ported from Great Britain command a big premium on the market. To a question concerning the best he present breeding United States, he stated that of Owned in Iowa: Sultan's Stamp by Wh'tehall Sulta in Wisconsin; Fairacres Sultan by Whitehall Sultan Oklahoma; Cumberland's Type and Count Avorr in Iowa were perhaps the outstanding ones. Of those Whitehall Sultan, Avondale, Cumberland's favored and Red Knight of Wisconsin, Ohio, Iowa and Minne sota respectively. Among Canadian Shorthorns he lavored Gainford Marquis and Ruby Master, both in Ontario herds. The leading two Shorthorn families

Constructive Show-ring Policy.
From the discussion concerning show-ring standard some very interesting information emerged. It was system in Canada. In the show rings throughout the continent the aged-cow class is usually a puzzle Perennial winners travel the circuit, winners that are no better than spayed cows, and yet win in breeding either for beef or producing calves. If for beef they
should appear in the should appear in the fat classes and not poise under the cloak of female conformation as breeders. Across and to stimulate the breeding industry in its problem At the Minnesota State Fair the Shorthorn Association. has arrived at a satisfactory solution. At first they required that females in the aged-cow class bely
milk, thus indicating them to be producing calves.

Some of the clever breeders beat the game and "put it and the other for the state to take possession of them
over" the unsuspecting judge. They perpetuated and developed unsuspecting judge. They perpetuated and
qualified. The peconction in in poor breeders and thus a requirement that all quairifed. The second step was a requirement that all
females in this class must show in calf. This was not absolutely satisfactory because certain cows fed heavily on roughage would develop large barrels, and for other adopted the regulations no, exact test. Finally, they must appear with calf by side, and the class is judged
according to the cambined according to the combined merits of the calf and cow
In this system the class is judged from standpoint. The calves may also appear in breeding classes and be judged on their merits, thus little cr no inconvenience is caused. The graded herd class is altered to meet the new condition by requiring
that it be comprised of the herd bull, two-year heifer that it be comprised of the herd bull, two-year heifer,
yearling and heifer calf, thus eliminating the aged
Mr. Smith remarked, "We in the Minnesota agedfemale class would never get a line-up such as I placed
at Brandon last. summer with a mixture of some breeding and others showing no indications of it., The institution of such a system in our show rings constructive in beef reable for consideration and prove show cows more often prove out producers of show stated. "OOten, hhow cows are shy breeders and we have to use inferior sires to get them in calf, hence the progeny are not likely to be so good. Show cows as a
rule are not given a chance to develop the best calves even when bred to good bulls, because of the condition the best cows are too valuable as breeders to ever put into the show-ring." He cited, howeeder, two evers put
were show females and produced winners. They were show females and produced winners. They were
Ruberta and Welcome of Meadow Lawn 4th, first and second prize as senior yearlings at the Chicago Inter-
national in 1900, which gave birth to Ruberta's Goods and Welcome of Meadow Lawn 7th , both merit. In the show-ring he believed the female classes should be placed more in keeping with female type and
not
from the fat-steer standard," "They should be cleaner cut at the head, cleaner,", he inter should "be the shoulder, wider at the hips, well laid down at the flank and of the real matronly character.
ing for correct beef type and early maturity is when we lose sight of the early-maturing qualities," he we lose sight of the commercial end." , , judging ring

## The Beof and Dairy Cross.

The proprietor of the Meadow Lawn establishment horns, he believes that the beef and dairy cross as pratticed by many farmers in the United States is preferable. The system these farmers prefer to follow is to
sell milk or cream from their dairy cows them each time with a beef bull. They and cross Aberdeen-Angus for such mating because prefer the
are usually black and polled, or in are usually black and polled, or, in other words,
Angus in appearance which when Angus in appearance, which, when finished, go to mar-
ket and command fair beef prices. In this way the farmers secure the milk from prices. In this way the beef steer. With this system they do not use the cross-bred for breeding purposes, but go out and pur-
chase dairy cows of the dairy breeds when individuals in the herd are-replaced. In contrast to many dualpurpose Shorthorn authorities he believes it impossible to hold any definite dual-purpose type. In beef
Shorthorns the proprietor stated that heavy milkers are sports and not by any means the rule.

Legislation for Tuberculosis.
Sanitary legislation for tuberculosis is puzzling the best authorities in Canada, in consequence an effort
was made to discover the progress in the United was made to discover the progress in the Unfioted
States regarding legislation pertaining to this disease States regarding legislation pertaining to this disease.
They recronize that tuberculosis is spread by the sale
of infected breeding of infected breeding stock from pure-bred establishmednts more often than in any other single way, and
have adopted federal legislation to meet this situation have adopted federal legislation to meet this situation.
This legislation prevents the interstate sale of breeding stock. It does not, however, prevent the sale of in-
fected animals within of most breeders is not confined to one state but many; in consequence it is to their interest to have a ubercular free herd that they may meet the require-
ments of this federal legislation which Minnesota is one, shave co-operatain states, of with the
Federal Government by inaugurating Federal Government by inaugurating a a system of
certifying herds. The breeder may mate certifying herds. The breeder may, make application
to have his herd certified, tests are made twice and the reactors eliminated. It it is thus credited as
certifed breeding stock to free. The breeder can then ship chaser desires a certificcate the bree stare. writes the star-
Sanitary Department for the last test of the ind Sanitary Department for the last test of the individual
animal, and the same is forwarded to the buyer with the pedigree. If the herd is not. certified, to meet
Federal inderal requirements it becomes necessary that the
days previous to pass the tuberculin test within 30 Mr. Smith has been testing individuals in the herd, and two years ago it became one of the state certi-
fied establishments. The state takes over all reactors,
refunds 75 per refunds 75 per cent. of the value of the reactors,
but not to exceed $\$ 150$. If the stock be thats, the cows may be quarantined on the farm to produce
breeding stock, and later on the reactors turned over
to the state, to the state. After being tested there are turned over
alternatives, the one to keep a quarantined bey atternatives, the one to keep a quarantined only two
eventually turn it over to the state for slaughter
immediately for killing purposes.
usually arrives in the morning, Lakes the veterinarian ture 10 a.m., after which time the cattle temperawatered or fed till after the final test. The tempera tures are taken three times in the afternoon and between 6 and 7 p.m. the tuberculin is injected. On the several others till $2 \mathrm{p} . \mathrm{m}$. The cattle are given and 20 to 22 hours to react. To the question concerning the reliability of the test he stated: "With cows well advanced in the disease and old it takes the tuberculin get them if readings are taken up to 20 hous wit injection. Once I bought several head of breeding stock, all of them tested and non-reactors. A little later one old cow began to decline, she was eventually slaughtered and was lousy with tuberculosis. This test; however, such instances not detected by the The writer was later favored with an interview by Professor Hastings, who is on the Wisconsin State stated that the tuberculin tesi was 85 per cent. reliable. Four to five per cent. would react and not have tubercular lesions, while the other 10 per cent. might not
react but still be tubercular. Th.
latter was dun the fact that a test could not allow for the individual

## Modern Methods in Calf Rearing

The fact that many live-stock trading places throughout Canada are supplied with a fairly liberal quandit mands for beef are constantly increasing on all the great meat mar the world, suggests that stock farmers should stop, look and listen. It cannot be veal for the markets are over supplied with good veal, for they are not. The quality and size of the cuts of prime veal commend it to an ever increasing proportion of the consuming populace, but that should not influence the breeder if his feed lot is to be kept empty or his breeding stock depreciated both in numbers and quality by sacrificing to the public taste the best or the entire increase of his herd. During 1915 about 50,000 calves found their way to the Toronto Stock Yards, and 10,266 went to Buffalo from that part of Ontario which feeds these two markets. We cannot conceive of any conditions now existing that would render these figures consistent with good, livestock husbandry. Nevertheless, many dairymen are so situated and are conducting such a business that any attempt to raise young stock would prejudice their profits. They would be excused in the minds of every one familiar with the different phases of dairying for disposing of the calves in any way which best suited theisale particular operations. Some even find it advisable to sell their farrow cows and buy fresh
ones in order to keep up the supply of milk. However there are producers of milk and dairy products who keep any kind of a bull that will get calves and cause their cows to freshen, but this practice, bad as it is
from the viewpoint of the cattle industry, is not the acme of folly, provided the wornout cows are replaced by good ones purchased from herds free from
disease. The saddest thing of all is to see a dairyman in this year of grace, nineteen hundred and sixteen, cross some thide of ancestry pride of ancestry and entitled to no hope of posterity,
with the herd, and then, in defiance of all the laws of live-stock breeding and common sense, instate during 1919 the female young of some of his 3,000 or 4,000 -pound cows into the producing ranks, and of the dairy industry The man who inten
plenish his milking herd with purchased and remight well consider the use of a bull chosen from one serviceable for beef production, and worth more for veal or feeders than those of straight dairy breeding.
This phase will, however, be discussed later are so many angles from which the calf question may have regard for the various features problem must industry. A dairyman may wish to sell the cattle as soon as possible, and another may desire to raise
them to increase or renew the herd. Some farmers
fottening the beef and dairy business by rearing and ers again depend on the calves almost. Other breedthe source of revenue from calves almost altogether as rear calves successfully without milk one could breeding industry would receive an impetus that would render it pleasant and profitable indeed. Labor is also a factor at the present time which must be considered. There is certainly a calf problem, and to set forth a few suggestions that may assist farmer in whatever phase of the industry they may be en-
gaged.

Nature's Way of Rearing Calves.
Naturally a calf is reared on certified milk. This does not mean pasteurizing, clarifying or being subdiscussed by the city boards of heatth. The cal
has the advantage. It goes to the source of has the advantage. It goes to the source of supply and gets its milk at the right temperature, in the practically free from bacteria or skimmed nor watered, gether uncontaminated by coming in contact with utensils or being exposed to a dust-laden atmosphere. Is it any wonder, then, that the sucking calf is usually sieek, well-fleshed, strong and contented? The pail-
fed calf is at a disadvantage compared with the fortunate young bovine that gets its food supply disadvantage may be overcome to a very large extent by practicing up-to-date methods, but these wit
be discussed when mention is made of pail-feeding.

## The Amount of Mill Required

A calf allowed to run with its dam or with a foste adequate shelter or stabling. Some and abov give sufficient milk to raise a calf properly, but it is In "1 difficult to state what the required amount is given: "Guernsey and Jersey calves do not rice is over 8 to 10 lbs daily for the first three or not require while 10 to 12 lbs . is all a calf of the larger wreed should have." At this rate of consumption the herdsman should be careful that the young calf does no
indulge too freely at first. While indigestion incuige too freely at first. While indigestion and the average calf will stop sucking when sufficient milk has been taken to supply the needs of its young system.
required by a calf during the first month of milk quantity given by cows of different capacity, some information was gathered from the actual milk records total production. The accompanying table shows the tion period, and the average daily yield divided into monthly periods for the first 10 months. They illustrate the daily yield of cows varying from over $3,000 \mathrm{lbs}$. up
to $10,000 \mathrm{lbs}$. and over, for one lactation period.

## Average Daily Production.

| Wow | Record |
| :--- | :--- |

Months. tates, however, seem enthusiastic over the test, and their herds clean

The natura tuberculosis is with the start legislation with regard to the greatest means of tistributing it. Thus in be vemble that Dominion-wide system would be ad not accept the United States at the present time will the disease. The time is comings found free from pance will not purchase a bull without sime farming ance. As soon as we endeavor to get clean, pure-
bred herds aniother restriction follows in the and that is tubercular free cattle shows in the wake, tions. The North Dakota State Fair requires all they expect to enforce similar regulations. cerning thereng a wide range of information conof which Lestie Smith, feeding, is proprietor. It is the history bnd med and in one of the foremost clean Shorthory herd methods a remarkable and there emerges from this career degree can emulate. He is a beef Shormer to some in the battleground of the beef breeds; we may prefer o step back on to our historical dual-purpose pastures
that is a matter of opinion.
4

It will be observed that in some cases more mill was given per day during the third month than at first, this was due to the season and the cows going
on to grass. Every cow that might make a record on to grass. Every cow that might make a record
of 3,981 lbs. would not produce milk in the same order of 3,981 ibs. would not produce milk in the same order
as the one listed first in the table. One might be a as the one listed first in the table. One might be a
more persistent milker and maintain a better yield toward the end but have less to her credit at first. The same is true regarding the five other individuals
made an example of. However, one can ather made an example of. However, one can gather from the table a fair idea of the amount given daily by cow

Getting closer to the question in hand regarding the needs of a calf, the writer observed a young Shortwhich from March, 1914, to March, 1915 , gave 5,696 libs. of milk. Her average daily yield before being let out this season was about 20 lbs. In spite of the lact that this cow was giving about twice as much
milk as a calf is supposed to require, no ill results were noticed. It was apparently getting sufficient milk but not too much. Last year a cow in the same herd raised her calf quite successfully, and when turned to pasture was only giving from 2 to 3 lbs. at a milking. It is possible that a cow giving a considerable
quantity of milk will soon diminish in vield to correspond with the requirements of her young while which will only put a small quantity into the pail may increase somewhat under the influences of the sucking calf.

Kellner, an authority on the scientific feeding of animals, writes that calves which will be fattened or used for breeding purposes should receive from onefollowing table sets forth the results obtained by several experiment stations in the United States, when investigating the average weight of dairy calves when born:

Weights of New-born Calves.

| eed. | No. of calves. | Av. weight of males. | $\begin{aligned} & \text { v. we } \\ & \text { fema } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Jersey. | 119 | 58 |  |
| Guernsey |  | 75 | 68 |
| Ayrshire.. |  | 77. |  |
| Holstein. | 104 | 94 |  |

According to Kellner," the calf weighing 94 lbs . would require from 16 to 18 lbs. of milk daily. Hunt, beef breed on whole milk for 161 days calves of a beef breed on whole milk for 161 days. They gained
1.77 lbs daily, and required 8.8 lbs . of whole milk 1 lb . of hay and 1 lb . of grain for each pound of gain in live weight.
fairly good dam of one of the may be seen that a easily raise two calves of the dairy breeds might easily raise two calves. The fact that a calf while
developing requires an increasing quantity during which time the dam or foster mother is de creasing in her yield, necessitates that only cows
capable of a fairly heavy and persistent flow should capable of a fairly heavy and persistent flow should Substitutes for Whole Milk.
Probably the best substitute for whole milk that has ever been discovered is skim-milk, with some meal or oil added to supply those ingredients lost through the removal of the butter-fat. The new-born cal
should have, under all circumstances the colostren or first milk of the cow. Subsequent the colostrum, milk can begin to replace the whole milk, but when the best results are desired the change should take place very gradually. In many dairy sections, call
meal, as supplied to the trade, is extensively used and with good results. The directions for feeding actake of either purchased To better understand the feeding composition of cow's milk is herein set forth.

|  | Crude <br> protein. | Carbo- <br> hydrates. | Fats. <br> Per |
| :---: | :---: | :---: | :---: |
| Cer. | cer | Pert. |  |
| cent. |  |  |  |

It can be seen that except for the absence of fat in skim-milk, it is quite as nourishing as the natural the mechanical separation of the ingredients and the way skim-milk is generally handled remove from it those properties that make the sleek and glossy animal when reared in the natural way. Pail-fed less round and slightly less thrifty than the often calf, because they take their nourishment more rapidly and, too frequently, under less favorable conditions After all is said and done, one must go back to nature's way if he wishes to raise a perfect calf. However, extent stat the matry an extent that the majority of the young cattle must be
reared in the cheapest way consistent with the mands of the market.

Some breeders and raisers of cattle labor under the impression that oil-cake meal with skim-milk will be similar in food constituents to whole milk. This is a mistake, for oil-cake meal is not rich in oil, but it does have a high protein content. Skim-milk itself vious table shows, and conseque milk, as the pre the proper substitute for butter-fat Ground faxseed soaked in water for 12 hours and then boiled to jelly makes a very good substitute for the fat of milk. Mix one part of the flaxseed by volume with six parts of water, and at the beginning feed about half a cup-
ful or less of the resulting jelly. This can be increased as the calf develops, but the size and vigor of the individual must determine the size and vigor of the used. The condition of the digestive system is also an indicator as to amounts.
whole milk in the rations is largely a to replace the Whole milk in the rations is largely a matter of choice. will be the calf when the can be allowed the better or three weeks of whole-milk feeding at made. Two ferable, but when the calf is seven to ten days old the change can be made gradually with satisfactory results. Without explaining in full the technique of gradualy changing from whole to skim-milk, we Macdonald College $P$ an experiment conducted at methods employed in feeding this calf, which was The fed from the first, may very well act as a guide to any one. The rations for the first thirty days were somewhat as follows
Birth
Birth until four days old-8 to 10 lbs . whole milk in three feeds per day.
three feeds per day day- 10 lbs . whole milk in Seeds per day tenth day-12 lbs. whole milk in three feeds per day.
lb. skim-milk, in two day- 11 lbs . whole milk and 1 linseed porridge two feeds per day; also 1 teaspoonful Fifteenth to twentieth day-9 lbs. whole milk
and 3 lbs. skim-milk in two feeds a day; also 1 tea Twentieth to twenty-fifth
Twentieth to twenty-fifth day-7 lbs. whole milk and spoonfuls. skim-milk in two feeds a day, also 2 te Twenty-fifth to thirtieth day- 3 lbs. whole milk and 9 lbs. skim-milk in two feeds a day; also 1 table spoonful of porridge each feed.
Thirtieth day- 12 lbs.
day; 2 tablespoonfuls of porridge each in two feeds day; 2 tablespoonfuls of porridge each feed.
lbs. per day in two feeds, and the linseed to 2 was increased to half a pint, as the calf developed It was weaned at six months.
At birth the calf weighed 85 lbs ., and, at the end of the first month, 120 lbs.; during the thirty days it
consumed 228 lbs . of whole milk 136 lbs milk and 2 lbs . linseed meal At the end los. of skimmonth it weighed 148 lbs . and had consumed 360 lbs. skim-milk, 9 lbs . linseed meal, and $41 / \mathrm{lbs}$, and bran. During the third month 434 lbs. skimmilk were fed along with $141 / 2 \mathrm{lbs}$. dinseed meal, \& lbs. oats and bran, 124 lbs . silage and roots (equal month the calf weighed 192 lbs. next 30 days the calf weighed 235 lbs end of the that time had consumed 469 lbs . skim-milk, during linseed meal, $111 / 2 \mathrm{lbs}$. oats and bran, and 30 lbs hay During the fifth month 600 lbs. skim-milk, 23 lbs. linseed meal, 20 lbs. oats and bran, and 62 weighed 300 lbs . At the end of the sidth this time calf weighed 372 lbs., and during the thirty the consumed 700 lbs . skim'milk, 43 lbs. bran and dats 24 lbs . linseed meal, 65 lbs of hay, and 80 lbs . of silage. Throughout the six-months period the animal consumed 228 lbs. whole milk, 2,699 lbs. skim-milk, $853 / 4$ lbs. linseed meal, 92 lbs . bran and oats, 204 lbs . roots and silage, and 188 lbs . of hay. It gained 287 lbs . prices of these feed stuffs and roughages the cost would amount to approximately $\$ 15.75$, and if cost wished to consider the labor expended on the rearing of the calf, $\$ 2.60$ would be a fair value to put on a man's time who is employed at $\$ 35.00$ per month. one rearing calves, and the details would be observed to the letter by few, they may act as a guide to those who do observe the various changes in a calf's rations and desire, on a larger scale of operations, to follow some schedule.

Important Details in Feeding.
Milk fed to calves from the pail should be as near the temperature of that drawn from the cow as temperature might be lowered without bad results but it should be kept uniform. After the calves get start, cold milk at every feed is better than hot and cold alternately at different feeds. Scald the pails posed to the sun and, in summer, leave them ex and vessels with which the milk maytly, all utensils If possible have feeding stalls constructed so the calves may be fastened one in each stall, and be obliged to drink from separate vessels. Two or three calves with their heads in one pail is a bad practice. Keep eaten some meal or or stanchions until they have extremities of their mates when liberated not suck the pernicious habit with cat After about three weeks the
gin to pick the young calf will be


Raising Calves in Nature's Own Way

July 13, 1916
will eat meal or grain from a box. Do not feed and is liable to induce digestive troubles. After the milk has been drunk, throw a little finely-ground oats and bran in the bottom of the pail or rub it on
the calf's muzzle. A taste for grain will be acquired in this way. Next' place a small wox be acquired reach of the calf, and in it seep some within easy and bran. This will soon be devoured and relished. Change the hay or grass frequently, for young cattle do not care for fodder which has been blown or
breathed on. Supply plenty of fresh water even when milk is being fed twice a day. Some herdsmen make is sufficient. During hot weather thanking the milk better in a darkened shed or stable with will thrive hay or cut grass, than out in the sun fighting fies convenient they could be allowed fut Scours is one of the worst scourges of the a pen. This trouble can often be corrected by scaldthe total allowance at each feed. It is to one-third slake some lump lime with water and the clear made. standing at the top of the vessel is the preparation required. So long as it is a saturated solution the uantity of war the same strength, for a combine with the same a uniform temperature will casion. Do not stir the sediment in the on every ocaking out the lime water, for the clear liquid the op contains the desired properties. Another the ten recommended is as follows: powdered chalk ounces; powdered catechu, 1 ounce; ginger, $1 / 2$ ounce tablespoonful night and morning. It is well to first mildly purge the calf with 2 ounces of castor oil, shaken up in some milk, and after this has acted give cause for the disease. utensils, or hot and cold drinks fed alternately, remove the cause
disease to tras or white scours is a more difficult tions must be exercis infectious, and greater precau the stable. As a remedy give the castor oil as pre with $151 / 2$ advised. Mix one-half ounce of formalin and keep in an amber-colored bottle to prevent chemical changes. The dose consists of 1 to preasponnful of the mixture per pound of milk, for a young calf.

## Meal Rations.

Whole milk contains 1 part of protein to 4.4 parts of carbohydrates and fats, while skim-milk contains 1 part of protein to 2.1 parts of carbohydrates supplement not rich in protein, but in those elements lost in the skimming.' This partly explains how
shelled corn results when fed with bran have given such excellent s important at first skim-milk. Some linseed meal their effects to those of the butter-fat. Outside of give good results. The fin carbohydrates will Otive of of the Kults. The following lists compiled by
Otisas Station, will assist farmers in selecting rations for skim-milk calves:
corn meal, mixture of 1 lb . linseed meal.
Whole oats, ground barley and bran
4. A mixture of 20 lbs. corn meal, 20 lbs. oatmeal,
20 lbs. oil meal, 10 lis. meal, changed to corn, oats and bran when the calf
is 3 months old is ${ }_{5}$ months old. 5. Whole oats and corn chop, the latter gradually
replaced by shelled corn in Among the dair corn in 4 to 6 weeks
of equal parts whole oats the United States a mixture as is a mixture of 5 parts oats 3 pat bran is popular linseed meal and 1 part corn meal. ${ }^{1}$. 1 parts bran, 1 part meal is is geuld nerally recommended meal should not be fed to very young calves. Howexter, stockmen should not regret this, for they have an extended list from which to choose. After the calf box, feed only what will be consumed at one fime. At 6 weeks of age a calf will eat in the neighborhood of $\mathrm{I} / 2 \mathrm{lb}$. of concentrates daily; at 2 months, about 1 and at 3 months about 2 , lles.
Silage will be taken by calves
and sometimes younger, byd whes when 2 months old and sometimes younger, and when it is from well-
matured corn and free from mold, it is wery roughage. Roots also are excellent and should be beor
supplied as soon as they will be eaten.

## Whey Calves

factory find it difficult to raise milk to the cheese actory find it difficult to raise the calves. On one Lambton County farm, that were, as as thrifty cas on many
skim-milk calves When three weeks old the getting 4 lbs. whole milk and 5 lbs. whey. The latter abs gradualiy increased and the milk lessened was added to each feed. This was gradually increase to a teacupful twice a day, and 10 lbs. of whey
When the When the calves were 6 or 8 weeks old the meal was dropped and finely-ground oats were added. The
calves took the whey readily and did not suffer from scours. garded in feeding whey to calves. The materiai

## THE FARMER'S ADVOCATE.

hould be, pasteurized at the factory and conveyed in thoroughly scalded vessels. It is not a protein matter. Consequientrly such concen poor in nitrogenous matter, Coil-cake mequently such concentrates as wheat can profitably be fed with it meal and ground oat

## Baby Beef From Dairy Cows.

to theme dairymen have attached a second string turning the calves off as baby beef. While breed an cannot be increased or renewed from the progen gratifying. Where the cash returns in most cases are gratirying. Where labor is scarce two calves are
reared by one cow. This save and when a liberal grain ration is fed the yilking, fellows are turned off at 12 to 16 months old, weighing around 800 to 900 pounds. Usually Angus bull is used, and the proposition is worth some consideration by those who desire to reduce the labor connected with their herds.

## Remove the Horns.

out emphasizing the wrisdom this article to a close with from all grade calves when it can be done the horns and with little pain to the animal. Horns are no to feeding ander on the milking herd, and when attached animals, and daner to source of injury to the caustic potash will eliminate attendant. A stick of pendages and prevent much subsequent injury and

## THE FARM.

## What the Consolidated School is Doing in Manitoba.

In Canada there is only one province in which to make a study of consolidated schools, that province duced the . When Professor Robertson first introada, it was given consolidated schools into CanCanada, and assistance was given in inty in Eastern inaugurate this system, but it has remained foreas to toba to carry out any feasible plan and spend prope ganda work towards the inauguration of consolidated schools, and the furthering of tearhing in these schools that stage where it wil be far in advance of the Manitoba is most alvane But can consolidation be said to be an advance. in rural education? Some say not. Are the country children who pass through the consolidated schools better educated than those that go through the one
room rural schools? room rural schools? Is the teaching of a higher
standard? standard of Are the boys and the girls, aside from the future citizens than they would be in the rural school? These are questions that must be answered in the affirmative if the consolidated school is more efficient than the rural school, and can claim the support of
the people. That the consolidated school is more efficient is the claim of the men who are advocating
the further introduction not only in Manitoba but in other provinces.
is more efficient, and here is another point that may
as well be settled it is for a quarter section is more expensive. Where taxes would be say, $\$ 25.00$, 160 acres) for the rural school probably advance to about $\$ 35.00$. crease in cost stands for a better equipped school better conditions, sanitary and otherwise, for the chill dren white they are at school; better teachers, better paid teachers, a higher standard of teaching, and the ing, domestic science, and most important trainture. These are the reasons given as making the consolidated school worth the extra taxes. The claim higher standard of education economy, it is one of a
To get frst hid cation for country children.
the readers of "The Farmer's And place it before consolidated schools were visited Advocate," three and Balmoral, each adjoining the other Gunt on so situated that they represent average conditions a well-settled farming district.
Teulon Consolidated School was established six years ago as a two-room school. In that time it has grown to a six-room school, with an attendance of to the school in vans, while about fifty in the village and attending the high school. Three vans are operated at an average cost of $\$ 375.00$ per year to bring in these fifty children from outside and-a-half furm this consolidated school about twoteachers are employed districts were included. Six in the high school, holding three first, two second thee ne third-class certificates under salaries from $\$ 650.00$ to $\$ 1,500.00$. Besides the rangin curriculum there is taken up manual training , includ ing wood work and iron work the boys built their work from home to be repaired). In domestic Bcience the girls have a regular class during the winter monthe Agriculture- is studied and examinations passed that will give first year's standing at the agricultural nol cultural work includ might be stated that the agri farmers in the district. A thesting of seed grain for seed oats was brought into the district. a car load of ${ }_{30}$ out by the school and found to germinate only about 30 per cent., and because of these tests the seed was rejected, and the farmers interested practically saved the loss of an oat crop. Milk from different herds is also tested, over two hundred tests being made in
the last year.
Organized drill and play and the operation of a
school garden complete the features studies or work taken up by the students, and it might be stated that all the time for these studies and the work in the school, is taken from the school average age of twelve, and writing on entrance an aminations at thirteen. Further, out of fifty-nine students writing on entrance and high-school examinations, fifty-eight passed, a most remarkable a boys' and eirls's also organized through the school this year. The members of the club are held a picnic potatoes and corn, and this fall will hold an exthibition of poultry, potatoes, corn, manual training work baking, canning and sewing. All this is being done in a
school where fifty tion buter of thildren are of $\begin{aligned} & \text { reren extrac- }\end{aligned}$


Daulphin Consolidated School.
io harmonious and bright. The Principal of the school Mr. Cummings, stated that with the introduction of the school garden, agriculture, domestic science, manual training and organized play, there came a decidedly better tone in the school, and a keene interest in the school work. In other words, the grow into brighter, keener men and women. This is what the rate-payers of Teulon Consolidated Schoo are getting in return for the increased taxes they are paying.
Gunton Consolidated School is in the second year rural operation. It includes two-and-a-half forme pupils, forty-nine of whom come in two vans. Ther are three rooms with teachers holding one first and two second-class certificates, and salaries of from $\$ 300.00$ to $\$ 1,000$. This school has not as yet had time to incorporate all the studies undertaken at euion. Besides the regular curriculum, manual boys have built their own work bench), and the operation of a school garden. The garden is already an actuality with its scores of plots. It has not been entirely brought thoroughly under cultivation.Domestic cience and agriculture have not as yet been included children prepare a hot lung for themselves and in agriculture the regular text book is augmented by study from bulletins and agricultural papers. A this school 50 per cent. of the children come through the entrance, writing entrance examinations at an average of fourteen. The teacher, Mr. McGowan be called such, give a reater interest in all it ma studies, and introduce that feature which might be called brightness among the students. Generally he also added, he found the people strongly in sympathy with the school work, and with the introduction of e progressive ideas
Balmoral Consolidated School has been in opera tion for two years. It includes one entire rural schoo rural consolidated school of the three. Of the one-hundred-and-twenty pupils enrolled, ninety-five are brought to the school in five vans. Only four vans are operated during the summer months, one having the distance being compar off, and the children walk, cost of operating these vans is $\$ 575.00$. The taxe since consolidation have increased from $\$ 30.00$ to $\$ 45.00$ per quarter section. Ninety per cent. of the people are strongly in favor of consolidation. There one third-class certifing two first, one second and $\$ 600.00$ to $\$ 1,200.00$. Besides the stuaries range from curriculum, manual training and school garden and organized play are features. Agriculture is also taught by use of bulletins, besides in the regular introduce further school has not as yet had time to operated this year features. The school garden, interest of the children, and as in the claiming the other two schools, is given credit by the teacher Mr. Duncan, for inducing a greater interest among the children in all studies in the school. Pupils reach Incidentally it might extions at an average of fourteen. of the writer's visit to the school at the time from rural schools were in writing their examinations and the average age in this case would range from fifteen to eighteen years, indicating greater efficien
among the children of the consolidated school.

In this discussion it was previously stated that the cost of the consolidated school was higher than for
the rural school. We also stated that they were better equipped schools, with better conditions, sanitary and otherwise, better teachers, better paid teachers with a higher standard of teaching. Let us see what has happened in these three schools we have reviewed. All of these schools have the very best equipment schools have modern manual training equipment these schools have school gardens. They. All of heated with furnaces or steam, and are always com fortable. The children have pure drinking water
at all times, and other conditions about the school are most sanitary. The average training of the teachers is high, the salaries are above the average much above the average of the rural teacher. The of teaching, as does also the age at which the childre are writing their examinations for entrance, and the Ther is assing
olidation, and it is a most in connection with conspoke of the interest a most important feature. We in their work. This was given by the teachers, but the feature that is still more important is the inTerest taken by the teachers in the work of the school.
These schools are entirely different from anything These schools are entirely different from anything work taken up is most interesting; new work is being are in a position where they can display individual talent in their work, and they are doing so, and back of all this is the fact that they are receiving fair
salaries, and from their initiative work and the building up of a high standard in their schools, they may hope for increased interest by the teache are the reasons is this interest that is sending a large number on these
teaching staffs to take special courses during their
summer holidays. The consolidated school is placing ideals of life work before the teacher rather than the more profitable occupations

Perhaps the most important factor that will prove an obstacle towards incorporating consolidated schools school over the rural school, a cost that will likely average from $\$ 5.00$ to $\$ 10.00$ per quarter section ( 160 acres). The figures given for the Balmoral school are unusually high. Roblin Consolidated School, the largest in Manitoba, operating six vans, We rather expect however to see this cost increased as the people find the value of the better-equipped school for the training of the children. There is, however, a return for this increased cost that can be very readily seen. What information we were able to gather indicates that a much larger percentage
of children attending the consolidated of children attending the consolidated school write Those who do write reach their entrance two or


Sperling Consolidated School
about it are soon afterwards organized, but when the whole province becomes organized into consolidated choois it will be possible to make many changes in in such of way a to not only make them out economical of operation, but of greatest service to the people.

## Minnesota Prison Farm.

In view of progress in prison reform being made Canada, readers will be interested to know what has prison itself occupies twenty-two acres overlooking the t. Croix river. Outside is the farm of 763 acres worked almost entirely by prisoners, who get from it milk, egge and vegetables for their own mess hall. The prisoners publish a newspaper, "The Mirror," founded in 1887 have a night school conducted by Prof. W. H. Holl and had an average attendance in 1914-15 of 161 prison boasts a library o
7,000 volumes, a brass band an orchestra and a branc of the Chautauqua society In celebration of the Shakes peare Tercentenary th society gave a highly com
mendablé performance o Richard Third, says a cor respondent of the New York Outlook. The principal industries of the prison are the manufacture of binder
twine and farm machinery. The prison is said to be The prison is said to be producing public institutions than self-supporting, last year showing a net profit of $\$ 74,627.55$ was paid out for prison labor, inmates earning all the way up to $\$ 1.50$ per
three years before the children in the rural school at fourteen years of age he will have from school trance if he is a consolidated school boy. The ennot, then he has not yet reached the entrance, and in fact, is a year or more from it. If he is attending trainingolidated school he has a knowledge of manual training, wood work, and perhaps blacksmithing, will be of immense as making him a more efficient citizen. Together with these he has the broadening of life that comes from the association of large numbers of other boys,
as will be the case of the consolidated school in the as will be the case of the consolidated school in the This boy has had an education that will fit ground almost any service in life, an education much abo the average. Furthewpore, he will have reached tha standard of education that at any future time he can continue studies to further fit him for farming o ther vocations.
has fitted this boy so that, must be further noted


School Garden Work at Teulon.
and has these two years to give back to the farm, cause of this the cost other boy is still at school. Because of this the cost of education in the consolidated

Even yet consolidation in Manitoba is comparatively
new. Beginning at Holland and Virden in 1906 it has with more in formation consolidated schools this year schools are in groups all over the these consolidated tricts are not the best planned to be most economisor give greatest service to the people of the comtional institution. This is seen in well as an educaSchool. The consolidated school districts are formed whether the district be formed it is entirely optional whether the district be formed or not. It is very
noticeable that where one district is
day, which money is absolutely their own and is either put away or them in trust until released or is
sent for the maintenance of relatives or family, that may be dependent upon them. Prisoners are 1894, when good conduct and for parolling. Since have been releastem was inaugurated 1,655 prisoners cent of them violated their agreements and had to come under the other words 80 per cent of the prisoners a punitive place a punitive place but an institution in which to reform,

## War and the Weather.

In answer to a query as to whether the extraordinary weather in any way has been brought about by the Toronto has issued the following statement
"His a
draw a rainfall curve in Asia Minor mackeorologist to with probably some degree of accuracy. More recently, accuracy. More recently of the yellow pine of Arizona and the sequoia denced by their rings, has he Carnegie Institute to draw a rainfall curve for agree fairly well and show that the climate has bee pulsatory throughout this f rainy, seasons and periods of celatively dry dicate that the one thous and years before Christ were much wetter than "At the beginning of urred many cold, wet summers. The years 1812
and 1816 were especially narked by a great depres Canada and the northern United States; and 1816 was
afterwards known "Many summers in the forties were very cold and "'In Toronto since April 1 there has early eighties. geater rainfall than in any corresponding period on record, but there have been at least ten other three--with a much greater rainfall. and July to September There is not the slightest re cannonading in Europe has any appreciable that the believe it to be negligible in the gigantic workings of and Westerncessive rain has been only in Ontario and Western Quebec. Eastern Quebec and the Newfoundland has been dry, and for two mane, and weather there has been exceptionally fine months the "The variations in rainfall from year to year through long periods are connected with the general circulation
of the earth's atmosphere, which is without doubt variable. Professor Abtott of Mount Wilson Observatory, has shown that the sun is a variable star changing its output of energy by at least one-seventh of the whole We do not know what the change have been in bygone times.
first the sequence probably is a solar change affecting first the equatorial regions, and leading to changes in and a little later the wind circulation and cyclonic ormations of the middle and higher latitudes,
We see no reason why there should not soon be a hange to normal conditions.

## Taxation of Forest Land.

Editor "The Farmer's Advocate"
One of your correspondents recently called attenareas from taxation. I have had some correspondence with the Department on that subject, and the present law allows but does not compel such areas to be exempt; but it devolves upon the owner to appear remitted.
The existence of wooded areas among arable land is such an important item that one can hardly understand how a government could overlook the necessity for them to the extent that our government has done. Certainly there should be legislation in existence
relieving forested areas from taxation absolutely, and it would be worthy of "The Farmer's Advocate, to take this matter up and push it through to a successful conclusion. I understand that such legisla-
tion exists in other countries, but Ontario, as usual, tion exists in other countries, but Ontario, as usual, s behind the times in legislative matters.
Middlesex Co., Ont.

## More Words for Sweet Clover.

 Editor "The Farmer's Advocate"Several years ago, 1 wrote a letter to you re swee clover as a forage plant, which in due time appeared in your excellent Journal with upwards of a column of editorial comment, which took effect, and many othe fiews on this supposed weed, some in favor other opposed. However, that letter and your comment made people think. It was discussed at the Farmers' Institute Meetings, experimental farms experimented on it, and to-day the seed can be purchased from ou aedsalfa and many farmers have sown it as they had sown everywhere is prodigious, and the "wise-acres" with long faces exclaim: ""I told you so," every place will be polluted with it, and it will smother every other It, no doubt, will grow on comparatively barren and give $t$, the soil nitrogenous matter from the numer ous nodules it so lavishly develops, and as for
polluting the land, the very opposite will result, for it is a biennial and must be sown regularly where the crop is wanted for green feed or for silage.
It will not grow on well-cultivated land as a weed and the plant dies the second year. On a property in this town, where everything has been saturated with salt, even upon the banks of accumulated scale from the salt pans it grows, and also on bare sand dunes it is a sight to look upon. I doubt if any other crop than corn will give as much material for silage, but best results. As it grows wild, we find that it will
grow from 5 to 7 or eight feet in height and the main stalk even an inch or more in diameter, but this, as far as I can learn is too woody for hay, but is grand pasture
for bees. for bees.
Sow thi
from the beginning to the middle of may be cut in Ontario from the beginning to the middle of June, and before it
is in bloom. Where there is charlock nor wild oats can is a good catch, neither many other good plants, the intelligent farmer will soon learn how to handle it.
Bruce Co.,
Bruce Co., Ont. Wm. Welsh.
Note.-We
Note.-We have not heard of any of our readers ensiling sweet clover. If any have done so we would be pleased to publish an account of their results. Never

## Bean Disease.

Editor "The Farmer's Advocate"
Of the three or four fungous diseases of field and garden beans, by far the most destructive in this part of Ontario so far as I have observed is the one popularly
known as pod-spot or anthracnose. A few weeks ago,


Pod infected with bean anthracnose; seeds adjacent to the large
spots are pretty sure to be inoculated with the disease.
in a seed-store, I noticed a box of "golden-wax" beans of them had come out of spotted pods. I took five cents worth to experiment with. The little packet


A Farm Blacksmith and Repair Shop.
This little shop pays good interest on the money invested in it by H. M. Rolph, a York Co, Ont former
contained four beans affected very obviously, and eleven others that were set aside only after careful examed perfect wese and about as many more that time of writing, in the second leaf are now, at the ormer class show the disease, one is apparently free two did not come up. Two of those supposed to have been free are diseased; the rest of them do not show ny signs of the disease yet
the fibro-vascular tissues. In has proceeded along
and on the under side of the leaf-veins minute dis colorations are apparent. Sections made through these little spots, viewed under the microscope, revea thousandths of an inch long. These spores are the means of spreading the disease to unaffected plants. It is a pretty safe assertion that every planter o beans from the stock of seed referred to will suffer more or less of a failure of crop. It is true that early requent and thorough spraying with Bordeaux wil in the plants inoculated in the seed.. Theres legislative protection against the distribution and sal of seeds badly corrupted with noxious weed-seeds. There is equally good reason for prohibiting the sale as anthracnosed beans. The a contagious disease as anthracnosed beans. The seed-buyer might be beans for sale in the pod, so easy is it to detect the presence of the disease there. But it is a matter for experiment to determine whether an affected seed can or ever does come out of a spotted pod.
Middlesex Co., Ont.

## The System Must Go.

## "The Farmer's advocate"

I believe the "Studies in Political Economy, are worthy of consideration columis of your paper, of your readers. I must say that I agree taith pari Good, the strong point which he has brought out in a forceful way is, that the fundamental principles f a democratic government rest with jovernment ownership of all industries and the abolition of all rent with the exception of ground rent, or in
other words, that those other words, that those people in common depend
should belong to the people in common-the
only means whereby only means whereby we ment of the people, for the people, and by the
people. But this can
never be brought about never be brought about
so long as the people are willing that the "almighty within fitself. be Abraham incoln once saif that it would be a worthy to try to get the laborent a near as the labore as near as possible the
full value of his labor. considered a worthy object has been com-
pletely pletely ignored by every government, It is the
unearned increment that creates social parasites, and social parasites are a which is the greater. It is sometimes hard to decide or the beggar. They are both a product of the present system, and with the abolition of the system they will both disappear.
-Subscriber.
Through agents and otherwise Japanese manuacturele are now pushing an aggressive campaign for the sale of their wares in America

## Canada’s Young Farmers and Future Leaders.

Raising a Calf for a Dairy Cow. Editor "The Farmer's Advocats"
I will tell what I have done in the way of experiment ing in feeding a calf. We had a Jersey cow which had inn e uluarter of her udder go bad at the time the calf
Ifed was born I fed was born We thought it no a dvisume to use her
milk, but thought it all right tor the calf. We thought milk, but thought it all right for the calf. We thought
her udder would get somewhat better if the calf was
 two months, when we took it away, and I had full
charge of looking after her. I put her in an orchard where there were no other calves or any live
stock. I fed her a handful of oats three times a day. She got all the enter she wanted, as she would not drink
nilk. She had lot of which had alteady been on grasss nearly other calves, fed skiad aiready been on grass nearly a month were
Thes ond faxsed meal, which was boiled. These were m mexded faxseed meal, which was woiled
only feed and dinik they some wate. This was the only feed and drink they got. They. got it three times
a day. They had plenty of grass and shade in another rchard, separate from where my calf was. My call rew to be of the dairy type cow, while the other calves
Trew to be of the beef brew to be of the beet type. The next year, after
being stabled in a large pen and fed silage and chop toegetheab with in hay and lare pen and fed siaw inge and the winter, they, my
the heifer included, were allowed to to tun in a pasture field all summer. As I said beore the che calves. paled on men meal
and milk, grew to be of the beef type, while mine grew
to be of the dairy type. This spring the calves fed on
the milk and meal were sold as beef cattle. They were in perfect condition. My calf is now a young were in perfect condition. My calf is now a young she is only a little over two years old. This experiment shows the different feeds used, and also shows the differ-
ent types of cattle produced by the feed. ent types of cattle produced by the feed.

## Middlesex Co., Ont.

[Note.-Do you not think, Willie, that the breeding of the calves might have had more to do with the type

Sandy Advises Boys and Young Men to Think.
Edítor "The Farmer's Advocate"

1. see ye are starting a new department in yer journal for Canada's Young Farmers and Future Leaders. generation are tae be the leaders in developing the thought and life o' the country in the coming years an' that we must look tae the farm for the bulk o' oor future supply o' brains. This may be richt, for than in God's country where place for a start in life be made for the purpose o' turnin' oot model specimens
o' humanity, wi' nane o' the unnatural condeetions . his mental development when the young chap on the arm tak's it in his, heed that he maun get aff the land $\mathrm{n}^{\prime}$ gang tae toon gin he is ever gaein' tae mak' the maist o himsel' an' rin ony chance $o^{\prime}$ becomin' a multithe warld is natural eneuch, an' is a sign that a man ba some energy an' ambition aboot him, but at the same ime it has had the effect in the past o' buildin' up a the ither institutions an' industries at the expense o griculture. What we want is some system whereby intelligent o, oor men on the farm. We need mair model farms that are rin by model farmers, mai as object lessons for those wha canna' think or act for hemselves wi oot some incentive o' the kind. We need a higher standard o' living among oor farmers an' there's na mair effectual way o' gettin' them up tae government orators tae lecture at Farmers send oo an' such like places, but its little effect they hae compared wi' that o an up-to-date farmer, wha is makin' success 0 his business by means 0 the latest an' maist A business theds inck-raising we're likely tae choose as oor life-wark one that na mair interesting occupation on airth than farmin',

Nen once jee get tae thoroughly understand it, an I mind the the face daein tlis or that.
rat motion the time when, I wis a y young chap, I had a, great notion .o. gein of tae the woods, an' learnin' $a^{\prime}$ simmer tae get eneuch tae winter on didna a appeal tae me There wis oneuch tue winter on didna' appeal it Sae I thocht I'd, just try a change an' see gin I couldne' get hauld o' mair money for tess wark than there seemed tae be on the farm. " "What's the ase
0
0 chance, for mair worke?" that time $o^{\prime}$ the pleasure that can be got oot oo' hellinin nature tae produce bigger crops an' better live stock than she can wioot yer help. My one idea wis tae get eneuch money tae enabie me tae; sometime, live the height $0^{\circ}$ ambitioncaven o iodenesess seems. tae be warld an I wis muckle like the rest. Aut In fo ind the that the lumber business had its hard spoots just like farmin, an thy the time I had seen a dozen or mair contractors an jobbers go broke I had aboot come tae tion $\ell$ हrowin' his ain pork wis aboot as safe frae starvajob goin'. Sae back $T$ cam' the the $\overline{z a}$ as at ony ither the noo, an' what's mair, I've learned eneuch tae be satisfied wi' its possibilities frae ony standpoint It tak' it. T've had no lack $0^{\circ}$ mental as weel as physical rusty an' becons, ${ }^{\text {n }}$, we need tae keep us trae gettin' fact that we arena a likelyen tae oor freends. But the pa' reason why we should wear oot on thet farm is has given farming the bad name it has in ree many places Ower muckle wark is as bad as not eneuch an' nature will punish us for gaein' tae one extreme as weel as the ither. The reason some men hae tae oot ot 'the habitit o' ousin' their brains. The they hae got "let yer heid save yer heels" is as suid advice sto-da, as ever it wis. I hae juist been readin' aboot a couple $0^{\circ}$ farmers wha are an illustration $o^{\prime}$ what $I$ am tryin' tao point oot. The first o' these chaps had seventy dolars left tae him by an uncle and the notion struck gae an' wark for some poit ther farmer, he wa bank in' hae eneuch tae boy aome farmer 0 ' his aimer,. he wad, in time he hired oot for aboot wenty dollars a month an' his board han Ior the next eight years his boss got the benefft of all the muscle he could exercise. In ither words his labor employer got thirty. He got his farm in the which hut his the beser your thirty. He got his farm in the end, but When he tefter young man in the story had thirity dollars when he left home, but he had no notion of puttin' it in the bank an' gaein' tae wark for someone else.
He made He made a part payment on a team of horses an' outfit land that wis goin taok the time. Lome the free Government ant inside twelve years he wis worth fifty thousand dollars. His wis a case o' head wark against the her felows main strength an' ignorance an' he beat Noo the point is that thand dollars.
are tae be her "fuuture ceaders," farmers o' this country
 labor is a'richt in ittser place, but ower muckle on on it interferes wid the proper action ot the brain. Yei canna
think tase think tae advantage gin ye're a' the time half palayed
oot, an' yeill come tae be, through time like that chap
they call "The Man with the Hoe." The poet tells us the wis "stolid an' stunned, a brither tae the ox." Ye canna' mak' leaders oot o' material like that. It's a'richt tae earn oor bread by the sweat o' oor brow, as we are tauld we must dae, but we need mair than bread in this warld, an' gin we gae aboot it in the rich There's lots $o^{\prime}$ guid men doing it.

## A Pig That Made a Profitable Hog

 Editor "The Farmer's Advocate"Last year my father bought some pigs. I asked for for one. That night he said I could have one or $\$ 3$, and he would feed it with the rest. So we put them in a warm spot, and fed them warm milk ind chop. They were so small that they would go big fellows. They were seven weeks old when wer got them. When they were two weeks older they had gained about 20 lbs. each. I always fed my pig and then I fed the rest of them. There were five, and my pig was the third largest. He ate a lot of feed. broad and wide in the shoulders, short in the and and with a short nose and short ears.
In the early part of the spring I got about five bushels of wheat at 75 cents a bushel and fed it to him. That cost $\$ 3.75$. When three months old he wenths 170 lbs ; at four months $130 \mathrm{lbs} . ;$ at five and a half 220 lbs . Then I 200 lbs ; and at six at 75 cents or $\$ 3$, and 3 bushels of oats at 50 cents or $\$ 1.50$. He was going ahead all the time. The pig made about $\$ 2$ a week for me. I got about one pig was about seven months old it and when the I igept on feeding till my father sold his 250 lbs . were about 10 lbs . heavier than mine, but when sold my pig was as heavy as his. I sold about $\$ 3$ worth of feed back to him. My gain was large at first. My pig cost-

| Wheat, 5 bus. at 75 cents Price paid for pig. Wheat and oats. Other feed | $\begin{array}{r} \$ 3.75 \\ \begin{array}{r} 3.00 \\ 4.50 \\ 4.50 \\ . \\ \hline 1.00 \end{array} \end{array}$ |
| :---: | :---: |
| Tot |  |

The total selling price $111 / 4$ by $21 / 2$ or $\$ 28.50$. Pigs were eleven dollars and a quarter per cwt. when I sold, so my net gain was $\$ 28.50-\$ 9.25$ or $\$ 19.25$. spend it on more pigs, and I will see a still bigger gain. I have a sow and I get half of the sins bigge own, and I will feed them the same as I did this fellow Inever had a pig before, but I got so anxious to hav and out I bought the one described and fed it myself way to make money money too. This is the best more in a year out of pigs than you can mak York Co., Ont of pigs than you can out of cattle

How a Shorthorn Bull was \#itted.
Editor "Tar Farmer's Advocate"
I am going to describe how I fitted a young Shorthorn bull for sale. The bull was born in J anuary
1915.
$H$ He ran with his dam all that as he grew older, was taught to eat a few mangels as he grew older, was taught to eat a hew mangess
or turnips and whole oats and hay. This was done till they were turned out in the spring when he was still allowed to go with the dam, and stayed out with her till she went dry. Then, in the fall, when it turned cold, , he was brought inside, but not fed heavily
till the foll till the following January, when it was decided he
should be fitted for the sale of Shorthorns, which was to take place in Guelph on March 1, 1916.
He was weighed before we started the special
fitting, and he tipped the scales at 960 Ibs. fiting, and he se tipped the scales at 960 lbs. Thecen, on Jonury 30, , he weighe deg7 liss; on February 6 , ${ }_{20}^{1,035} 1,085$ ibs; ons. February $13,1,060$ ibs. ibs on February ${ }^{20,} 1,085 \mathrm{l}$ bs. and on February $22,1,110$ lbs., his gain of 150 lbs. His feed during these five weeks was per day: 1 bushel of turnips, oat chop gradually per creased from sol to 12 quarts a day, and oil cake gradually incresed from 3 to $41 / 3 \mathrm{llbs}$., with a few ears of corn thrown in, and all the hay he would he could drink and a good application of the water comb and brush added. . During the time of feeding he was taught to lead with a halter, and at the end of the five weeks would lead better than most colts of his age. He was loaded on the train February 28, and taken to Guelph and was sold on March 1 Brant Co., Ont.

George W. Hass, Jr.

## How a Boy Fed Three Hogs.

## Editor "The Fararr's Advocate"

1 fed three Yorkshire hogs for the Hog Feeding Competition last year. I gave them a good-sized pen the litter daily, and I also made a practice of fedid the same time each day, which I I think is is necessary Their feed consisted of skim-milk and shorts, for couple of weeks, then $I$ added green clover for a noo eed, till the end of the twelfth week. The remainder of the time they were fed oat and barley chop, three times daily:
These hogs received $3,196 \mathrm{lbs}$.' of skim-milk in 224 eeds, which is about $21 / 3$ lbs. skim-milk a feed, gradually lbs.eased to $51 / 3 \mathrm{lbs}$. a hog each feed. They got 68 lbs. of grain, running from $11 / 3$ to $22 / 3 \mathrm{lbs}$. to each ho a meal. They also consumed 170 lbs. of green feed When I started to feed my hogs their weight was 25 llb
each. When finished they weighed 161,166 and $166^{1} /$ lbs. respectively. They kept an even weight till the last couple of weeks. Their gain was $4181 /$ lbs. When they were fed 6 lbs . grain per hog daily, they each put on 3 lbs. gain daily. If I cut off the new feed they only put on six-sevenths of a pound gain per hog daily $\$ 4$, their value at 6 weeks old was $\$ 6.30$, adding to this $\$ 4$, their value at 6 weeks old per hog, made a total cost
of $\$ 10.30$ per hog at the end of the 22 weeks. were valued at 9 c . a lb., which brought $\$ 14.80$, thus showing a profit of $\$ 4.50$ each.
Waterloo Co., Ont.

## Automobiles, Farm Machinery and Farm Motors.

## Changing Gears.

A great many car byyers are occasionally disappointed at the outset with cheir purchases, because they not long, however, until practice makes them perfect and they become so acuuctomed to the shiftect of the gears, that the operation is practically done
unconsciously It is that when going into low gear, no particular semember is required in handling the lever. The movement is done with more feeling than strength and in passing
from first to second, the action should be firm in from first to second, the atction should be frrm and quasing.
Speed and fixity of purpos als Speed and fixity of purpose also apply to the last change
into high gear. A great many don'ts to advantage. Never allow the gears to remembered the clutch in a decisive manner; before making press change accelerate the speed of the car. Do not allow your machine to slow down; because in a great many instances, such a system will prove uneasy and disastrous. There is no fixed speed at which gear changes
should be made, but practice will soon make perfect should be made, but practice will soon make perfect seem at first a difficult problem to solve, will later may be regarded very lightly.
Most cars are sold with a reputation for hill climbing,
but it is well to bear in mind that the for but it is well to bear in mind that the forcing of any piece of machinery is not good policy. If you feel that your automobile is not going to climb a certain to throw on the intermediate gears, in order that the strain may not have a telling effect upon the mechat the and in going down hills, do not be too proud to puli back the emergency brake, in order that the descent
may be made with safety. It is better to guarantee an masy, sane performance, It is better to guarantee an
The clutch of take chances.
attention. If in proper order, it will engage readily and give a quiet, economy of motion to the machine esult is burning leather and general inconvenience can determine the amount of extremely simple. You upon the clutch by trying the gear to be put emergency brake pulled back to the gear with the

Power of a Kind Not Common.
A circus disbanded in Sheffield, England, and the animals were let out for hauming purposes. The two camels and the big elephant
are shown hauling three heavy boilers. International Film
the pulling power exerted is strong, your clutch
can be depended no great strengenth is expon in a crisis, but if
solutely
necessary with a cone clutch are in the leather of the difficulties comes hard, or burned, or compressed beyond, which beA certain amount of friction is always caused because
a clutch must slip, but see to it, that this necessary

heat does not bring on serious complications. In multiple
disk and three plate clutches, roughness seems to be the outstanding cause of dissatisfachetions. If you to beep
your plates smooth your plates smooth, you have done practically you keery-
thing
necessary. Wear should thing necessary. Wear should done practically every-
when it becomes distinct, should be watched for, and when it bec
placements.

## Petroleum Power and Supply

When one form of power or fuel becomes excessively storehouses of nature come to the telief of mankind by holding in check the rapacity of corporations or users of motor-car power has directed attention more and more to kerosene as the solution of the problem Automobile Enginerrs reports a widespican society on operated cars, and at a recent New Yort the conclusion reached was that the prohbem meetinl
finally be solved by the development of engines that frally be eolved by the development of engines that
would use ekrosene. At a Cleveland society meeting it was believed that developments in carburetion
would would heve an inpar developpenents in carburetion
consumption and permitting thering in recurin fuel In this connection it is encouraring to the publice to
know that the discoveries of new know that the discoveries of new crude petroleum
wells and the supplies of this important raw fuel appear to be incresing. A receno return row for the the greatest in the history of the industry. The May output reached 8000,000 barrels per duasty. figure
never before attained, and an anailable stok never belore attained, and an availabe stock, reported
at neearly $175,000,000$ barres.
atrer
 poblicly--wwed lands of the United. States. Instead
of $a$
famine in crude oil this



A Boston company has begun the manufacture chinery.

Because of the increase in the number of motor cars Horseshoers' Association has ordered a general advanin Horseshoers' Association has ordered a general advance
in prices for work.

A large increase is reported in the number of petroleum, oil fuel engines being turned out by Can-
adian manufacturers.

## THE DAIRY.

The Dairy Movement in P. E. Island edror The Farare's Advocate
George Barr of the Dairy Division, Ottawa, in
company with Harvey. Mitchell, Maritime Represent company with Haryey Mitchell, Maritime Represent-
ative of the Dairy Division, Ottawa, Rev, P C Gunthier and Andrew MacRae, a prominent Ayrshire breeder have just completed a a tour throughout Ayshire Island, and already the good effect can be noted. A series of dairy picnics were arranged by Mr. Mitchell, and the
local Department of Agriculture, to discuss vital questions with our dairy farmers. Every man is an expert and spared no one who was not properly caring being made -to the greatest advantage. Mr. Barr
dealt principally with the was not and after visiting a factory in the morning the farm prepared to talk to those who were producing the mill. In many cases Mr. Barr spent considerable time with the
makers throwing out hints, particularly about the fast working curds, the proper working and salting breeding of dairy cattle. Rev. P. C. Gauthier, represent the Catholic Clergy in agricultural matters, and appealed forciby to every audience to forget race, color, and creed
in order that progress might be made. He encouraged
the pork and place a premium on quality of butter, cheese pork and beef. He emphasized the great possibilities
of the Island, if intelligent effort took form in co-operative measures, dealing with every agricultural activity,
Our boys and girls, he said, are our greatest assets and age. The they leave the Island immediately they are of question and would never be satisfactorily solved until
the small country scheol effort where children would be taught in a more essential way. Consolidation, he believed, would be the solution of the problem Since the passing of the dairy legislation last winter,
there has been a decided impetus to excel. The work is now practically under the Agricultural Ine Instruction
Aid Act from which fund the Inspector is is directed by the Director of Agricultural Instructio in co-operation with the P.E. I., Dairymen's Association.
The factories open as a rule about June 1st. Previous The factories open as a rule about June 1st. Previous
to this date, the Inspector, M. Mr. Morrow, visited as
many factories as possible and suggested ways of improving surroundings. It is safe tond means every factory cleaned up and did safe to say that
in many, large sums were spent on floors, varing,

Ctc., while one butter factory purchased a pasteurizer
Cream grading is practised in several sections a result, in some places, the quality of the output has have been made from only recently test shipments factory replies. It is oly a meteryer expects satiseffort to bring our dairy products to a inigh and some Centralization seems to be the key note sindard. production in order that a large make is possible which permits the purchase of high-priced machinery. The dairy outlook is excellent this season. The
weas
been exceptionablly favorable and crops probably never gave greater promise the and the sufficient pasturage and large crops of hay ens root crop has got away with an early start, thus giving succulence for next winter.
the Maritiour greatest needs is a Dairy School situated in instruction by gathering where our makers could get work, thus discussing problems and going over the schiools in Ontario are out of reach for arise individua makers. This is the only way by which uniformity of make can be ensured, providing the quality of the
milk is reasonably uniform. If the Maritime dairyme are going to compete, some such action is necessary

## A Milking Machine Making Good

 co. B. Curran, Distict Representative in Napane his county hias installed a millie case where a man in of $\$ 247$, including gasoline and with which one man can milk 20 cows in terathit an hour with the three units and an extra pail The owner of the machine told Mr. Curran that his 19 cowswere wes installed steady increase in productione ming there was a a week it had risen nearly 100 from the herd and in milk by hand took to the machine quite readily.

## HORTICULTURE。

## Peculiarities of the Sweet Cherry.

Apart from the necessity of planting sweet cherries on gravelly or well-drained soil there is an apparent the varieties as to ensure adequate fertilization. The matter of getting the bloom of all fruits to materialize into a good crop is claiming the attention of scientists, and since sweet cherries are very erratic about bearing, it seems more than possible that the nature of the
blossom is such as to require special The Oregon State Experiment Station has been
investigating this phase of sweet-cherry culture they have come to the conclusion that some varieties are seli-sterile, while others are inter self-sterile. Northern Spy apples are said to be self-sterile, because they require some other variety in proximity to them to on the Spy itself does not seem to possess all the prom perties necessary to fruiting although the stamens pistils and other parts of a perfect flower are present It was found at the Oregon Station that some varietie of sweet cherries, besides being self-sterile, were inter varieties could not fertilize each the bloom of different the Bing, Lambert and Napoleon (Royal Anne) There varieties were not only self-sterile but inter sclf-sterile southis province the Napoleon is quite hardy on the south shore of Lake Ontario and is noted for its prous than it is in the South is nearer sell-fertile with but perhaps the other varieties in the determined, effect adequate fertilization and relieve the same distric worry in this regard. Black Republican or Black Tartarian were found to be effective and suitable
varieties to plant near the Bing, Lambert and Napoleon
to cause them to fruit
difficulty experienced through the there is seldom ans fertilization of the bloom, because so of self or crossare usually set that the interchange of pollen is quite
thoroughly effected through the thoroughly effected through the good services of wind and insects. The isolated grower, however, may find in these peculiarities of the sweet cherry some clue to
the mysterious behaviour of his

## Telegraphic Reports re Fruit.

## of the Department of Agriculture at Ortaw Branch

 publish at frequent intervals (probably twice weekly) reports covering fruit conditions in all parts of Can-ada. These reports will contain the following informa

Fruit crop conditions in all commercial sections.
Wholesale prices in leading Canadian markets. Quantities of fruit being exported.
Condition of fruit
This information will be of great valuation. no are commercially connected with the fruit-grow by telegrams and distributed ime received in Ottawa Anyone wishing to receive these telegraphic reports
can do so by making application to the Fruit Branch,
Department of Agriculture, Ottawa.

## Honesty and Good Fruit Command

 the Price.and do governments might sit constantly for month of fruit, but if the enact laws regarding the marketing at large were not in harmony with sentiment of the growers the laws would be of no more value than that memorates, scrap of paper." The fewer laws we have the better we shall ize; it is only the that decree. The mourderer who quakes and trembles at not keep the average human being penitentiary does he considers it only the abode of the evil doert, The laws that fruit growers are asked to observe are, we
believe, fair and believe, fair and just. They protect the honest producer
and tend to consuming populace consiness in populace, and what would help the fruit who use our stuff consider a barret of No. 1 the people made up of fruit well matured, free from inpples as fungus or insects, and large enough to be good for any signified a certain quality, or a box of berries geant a definite weight of luscious a box of berries meant much of this necessity in every home would be same, ed over the telephone as are other household purchasUnfortunately this is not the condition of affairs. The requests that the fit the contents to the often inspected, as though any deceive the buyer by placing superior stuf try to face and inferior fruit below the surface. Perhape there is some peculiarity about the human race that grower offers for sale while the of what the fruitput is bought and sale, fidence. After a careful study of the greatest con is obliged to conclude that at some time or 0 thion have been "stung" or the packages were over-faceded ocassions this season, brought this very fact to the packages were well filled and asked them to see that Violations of the law have come under the observation. of the inspectors. Those who do so transgeres, no only injure their own reputations and prejudice thei and render 'marketing a laborions the whole industry and render marketing a laborious task, One's sins
will find him out. The consumer complains to the dealer and he in turn traces the act back to the to the who is then "black listed." Honesty is the best policy. There is another side to this question. Few realize the difficulties of the producer. His product realize with the season and other influences over which he fias
no control. The laborers in no control. The laborers in his employ will often over-face a package to make it look pattractive, even
though they have no financial interen whatever. There is a tendency, strictly the product make the offering appear pleasing to the sight even, to the extent of exaggeration. We believe that in the majority of cases where overfacing is detected the wrong the rules of the trade and intent, but in ignorance of that are sure to result. Deaters harious consequences repack boxes of fruit and berries, and whiat was orivinally an honest pack has gone out over-faced and adulterated with second grade stuff. Instances of this nature are happily the exception and so is the dishonest grower, hut growers to fill their packages with fruit admonish fruit growers to
as
will carry
properir packages, according th to the kind or matureand make the face representative of the entire contents of the container. This practice will make for a better
business. it is surely worth doing.

## Apple Scab Has Decreased the Crop.

 After the abundant bloom appeared on the apple year, many growers assumed the "what"s States this attitude and allowed their orchards what's the use unsprayed The continued and almost constant rainy weathe during the early season also hindered spraying, and theresult is that No. 1 quality is likely to worth a good price. The scab on the be scarce and causes the small apple to drop and even frequently remains hanging it is not likely to be of any great commercial value. The reports of apple'scab come persistently from all over Ontario with the exception of some small areas, and New York State is suffering
from the same trouble. It is going to reduce the rom the same trouble. It is going to reduce the now
visible crop to a considerable extent so that any cle ruit is worth watching. When the fungus once be comes entrenched it cannot be beaten oof but further spread can be prevented. The careful fruit grower will, we believe, realize a good price this year if he has a clean article to offer. A second perusal of the article on apple scab by Prof. Lawson Cæsar, which appeared danger periods are well explained in that excellent treatise and orchardists might even now prevent further infection by applying a fungicide.

An idea may be formed of the growth of grain
husbandry in South America from the fact that imported 546 more threshing outfits in 1915 Argentina 1914 and the year following an increase of 627 , white for the year ending March 1916 the increase was 1,000 .

Niagara District Fruit Grop Slightly Damaged.
The severe storm on Sunday, July 2, injured the ruit crop of the Niagara District to some extent but the actual damage was not so extensive as first reported. F. M. Clement, Director of the Horticultural Experiment Station at Vineland, has sen the following information to "The Farmer's Advocate the Township of Niagara. Hail stones cut a large portion of the fruit from the trees, and damaged what was left in this particular area. A number of men lost their total crop. The damage, however, to the total crop of the Peninsula was very light. The percentage lost would not the more crop. Some grapes and one-half per cent. of the total crop. Some grapes throughout the whole district were damaged slightly
by having the tender shoots broken loose, but here
again the total loss is very small."

## POULTRY.

## It Will Pay to Feed Layers Skimmilk.

- During the past three or four years poultry raisers have been reading more or less abo food stuff for poultry of all kinds. Particularly has the public been told through many poultry papers and station publications of the probable value of this by product of the dairy as a food for baby chicks. In ocalities where sour skim-milk can be obtained for a fair price, the question has often been raised as to whet her This experimen the idea. in mind of determining the exact value of sour milk as supplementary feed for laying fowls, measuring this value in terms of surplus eggs produced. The following s a record of certain studies along this line, recently Station.

Two pens of 100 Single Comb White Leghorn pullets each, all March -hatched; were selected. These birds were as uniform in size, development and quality as was possible to obtain. Both flocks were kept in a hollow tile laying house, both pens being exactly the same in size and furnishings, and both flocks were managed under absolutely sipailan conditions. The regulation Néw Jersey State Rations were fed in both pens. Pen No. 22 received sour skim-milk in unlimited amount For lack of room, it will be impossib.
complete tables giving the detailed results show the rom this study. However, a few figures must be known to be appreciated. Pẹn No. 22 receiving sour skim-milk laid during the first twelve months $\mathbf{1 2 , 0 4 4}$ eggs, or an
average per cent. production of 34.4 . The value average per cent. production of 34.4. The value of these eggs on the wholesale market was $\$ 375.04$. net profit above all feed consumed of $\$ 2773$, leaving pare with these figures the results secured from Pen No. 25, which received no sour skim-milk. The number
of eggs laid during the first twelve months was 8,382 , of eggs laid during the first twelve months was 8,382 , resulting value of eggs produced of $\$ 256.14$. The cost of all feed consumed in this no-skim-milk pen was $\$ 99.21$ leaving a resulting profit for the pen above feed of milk was fed, we find an increase of $\$ 121.41$ in favor of kim-milk, or, based on the record of this experiment, study of the the feed consumption shows that the milk-fed pen consumed considerably more feed, due probably to the increased production. In addition to this study here enumerated, four other tests with younger and older birds and with birds of different
breeds were run simulateously. The results of all these studies verify the differences shown in this particular instance, although in no case was the difference quite so pronounced. The conclusions reached from a careful
analysis of these and other records of similar nature are as Sours:

1. Skim-milk has a very definite 'place in the
nutrition of laying hens, being a splendid' source of nutrition of laying hens, being a splendid source of
protein food, the element so necessary for the production 2. The returns measured in number of surplus eggs
produced indicate that the sour skim-milk has nearly 3. The feeding of sour milk kept the birds in better physical conctically free from disease.
2. The feeding of skim-milk slightly increased consumption of other parts of the ration, probably
because the skim-milk kept the) digestive organs in splendid running order so that they were able to handle
larger amounts. It is thought that larger amounts. It is thought that on a commercial
basis this factor would appear more strongly than it
did in this somewhat limited 5. Egg producers can afford to pay from 40c. to
80 c. per hundred pounds for skim-milk.
3. Sour skim-milk can be fed in open pans, thus

## FARM BULLETIN.

## A Lost Article.

## BY PETER MCARTHUR.

Just as I sat down to the typewriter I found the subject for an article or at least)a paragraph. I came with the back of my hand and sat down at the desk to write about something I had been thinking about all forenoon. But before starting. I found myself confronted by the great temptation-the temptation
that has led more farmers astray than any other. It is the temptation that drives boys and girls from the farm-one that I have often moralized about, although I never before felt it in my own case. This is what happened. Just as I was going to start writing I stopped long enough to reflect that no time was being wasted though I might stay at my desk for a couple of hours the work would go on just the same and I would no
have to pay a hired man. Then came the thought o have to pay a hred man. Then came the thought of do the work while I sit around and boss the job. There will be no wages to pay and-but right there I came to a stop. It is just because so many farmers regard
their boys and girls as servants who must work without wages while father reaps the profits that so many young people leave the farm. Of course there are two sides to the story. Possibly the father has been working hard all his life, and the expenses of a growing family have kept him back so that the first chance he sees of getting They owe him much and he has a right to except some return, but it will take a lot of good judgment to decide how much he has a right to profit on their labor before allowing them, or helping them, to make a start for themselves. The great trouble is that when father begins to taste the sweets of having his work done with The older he grows the more he hates to give up any share of his profits and then the children get discontent ed. But there are some fathers who think the matter over carefully and strike a just balance. Still, the
temptation to take advantage of the opportunities temptation to take advantage of the opportunities
offered by a growing family is very real. Don't I know of fruitful years with nothing going out for labor It looked so good that it gave me a wrench to realize that it would involve much injustice. But while it lasted it looked good and I am not so surprised a
used to be that farmers yield to this temptation.

It seems as if all things were conspiring to keep me from writing the article, I had planned. I fully intended writing it as soon as I wrote the above paragraph as I was ready to start my attention wages. But jus joyous shouts, gurgling laughter and much splashing of water. Glancing from the window I saw a sight that scattered my ideas and filled me with envy. The two littlest boys had filled a large iron food boiler which is used for heating water on wash days. The hot sun the swimming fine and they right warmth to make there is no regular swimming hole within miles of As the boys had hit on the big boiler as a substitute. course it wasn't the real thing, but it had one advantage of a swimming hole. They could splash around in know why it is that they were taking a bath. I don't looks so attractive as it does in a swimming hole. Perhaps it is because the bath tub carries with it a suggestion of duty and of cleanliness that can be achieved only by much painful soaping and rubbing. But in a swimming
hole it is different. You just slosh around and let the mud squeeze between your toes, while the sun is burning big boiler, but they have the wind bew mud in the wet backs, and the sun burning them, and they their so happy when coming up from cool plunges that makes me feel twice as hot as I did when I came in out cold cream and talcum powder on blistered butting to-night I will feel that being too old to go swimming

More excitement! It really seems as if a con-
piracy existed to keep me from writing the thoughtul spiracy existed to keep me from writing the thoughtful
article I had in mind for this week's contribution.
Just now the cry went up that Clementine the b raised little pig, that has a pen under an apple tree in the orchard has just escaped and has come to the door ood supply. It is a perfect riot. The pig is squealing, Sheppy is barking, and the indignant supervisor of the
lawn is making pointed remarks. O, well, I guess I can anyone tell me why a pig squeals so unmercifully pig as tenderly as if it were an infant in arms and it ten rods to its pen. The neighbors will think carried
are having a pig killing. Now everything is quiet and I must get down to business. Let me see. . What on earth was it
that I was going to write about? I'll be switched if I
haven't forgotten. Still it doesn't
do justice to what I was thinking about in so little space. Besides, the weather is too hot for serious
writing. With the haying in progress and the corn writing. With the haying in progress and the corn
being cultivated, no one wants to read solid stuff any being cultivated, no one wants to read solid stuff any
more than I want to write it. Yet I hate to lose that article after spending so much time thinking it out. Perhaps I will think of it some other time. But even if I don't it will not matter. We are having such beautiful weather after our wet spring that I refuse to worry
about anything. A man can always find something about anything. A man can always find something
to write about and even if he can't he can write about nothing. A great many writters do that even when they are most solemn, but I wouldn't bluff the readers of The Farmer's Advocate in that way. I always try to tell them the truth even when I have nothing
to tell. to tell.

## Canada's Crops in Every District.

A special press bulletin issued July 3, by the Census and Statistics Office gives the following report on the condition of feld crops in Canada at the end of June, minion Experimental Farms and Stations in accordance with arrangements made between the Departments of Trade and Commerce and Agriculture. The reports show that the prospects for grain crops are excellent throughout the west, but the crops being about ten days later than last
from early frosts.
In Prince Edw
have been most favorable for all crops. was completed fully two weeks ahead of last year; beneficial rains fell occasionally. All the grain crops are sturdy. Roots and potatoes came on well. In some districts hay is light, in others heavy; it will", be an average crop. Nova Scotia, Kentville.-June was
an exceptionally fine growing month, following an ideal month for getting crops in. All farm crops are looking better than usual. Amherst.-An unsettled June, making seeding very difflcult. A large per-
centage of all grain was sown early in June centage of all grain was sown early in June and has germinated well; roots and potatoes have yet to be planted. Weather too cold and wet for good growth,
barley suffering most. New Brunswick, Fredericto -With 13 rainy days in June the precipitation amounted to six inches; low lying crops have been damaged and weeds are smothering the root crops. Grass and grain are generally above average. The potato acreage is
equal to last year', and the early planting is good. A equal to last year, and the early planting is good. A
considerable acreage of turnips and buckwheat has not yet been seeded
Abundant rains have favored the growth of grass, and prospects are excellent for a good hay crop in Qain. Pasphebiang lands have suffered from too much barley look exceptionally well; potatoes are very rood if rains keep on crops may be injured; in low lands it is almost impossible to get weeding done. iRimouski.-All crops have a magnificient appearance, only low lands -June has been rainy and cool; seeding late and difficult grain and fodder corn rather poor on undrained and roots are hay erop he ser gave greater promise; fiel fruits very promising start; pasturage abundant and every day; pastures are good, and hay crop will be very heavy; owing to too much precipitation only three fourths of the usual area was sown to grain; potatoe and corn do not look well; all root crops have germinated appearance grie, Labell. Hay has a very fine potatoes fine grain sormat backward but promising Lac A La Tortue.-The appearance of cereals is only medium, except on high lands; corn good, potatoe good, peas very good. The frequent rains have caused many weeds in hoed crops and have flooded lands ing has been retarde. Lennoxville, Sherbrooke.-Seed crops; haying two weeks later espectally corn and hoed ward; corn three weeks later than usual Aubrey Chateauguay.-Grain has the appearance of a bumper crop; corn doing well; potatoes not very good; other About long well
About one-third less grain was sown than in previous years in Ontario. In condition it is uneven, spotted ripen, and will be cut for green feed. Corn this year occupies not more $n$ two-thirds of last year's area
n some parts no ciup was got in at all, and the land nust be summer-fallowed. The hay crop is good, but fine weather is required for saving it. Potatoes are in
bad shape and roots are late Abundant rains have fallen during latter part of
June, around Brandon, Manitoba well rooted and there is a strong healthy crop is very of lateness prospects are excellent. Morden.-Weather fne and warm with sufficient rainfall. At present
everything looks like a bountiful crop. hroughout the district as good. Weyburn.-All grain crops are looking well with plenty of moisture and
growing very fast. Hay is good. from ten to eighteen inches high; Gone in shot blade principal foo much rain. Moosejaw.-Condition of the principal field crops very satisfactory. Earliest wheat
nearly shot blade stage; very good stand on ground not hurt by high winds. Oats and barley showing rapid growth; plenty of moisture and good growing weather Potatoes and corn coming on well. Maple Creek.-
Rank growth of all gtains. Wheat in the shot blade. Early sown wheat almost ready to head. Abundanice of moisture. Prelate.- All wheat and oats in this

Wheat 14 to 18 inches high; oats 8 to 10 ; flax 3 to 6 . bumper crop in this district. Radville. - Crops in fine condition; plenty of moisture, wheat 2 feet high. grains. Hay and rain, and rank strong growth in all oats and barley sown on late spring ploughing. Much frosts the only prevention of a big harvest. Scott.Weather cool and unsettled, precipitation heavier than
is usual for June. Stand of all kinds of grains unusually is usual for June. Stand of ail khinds od grains unusually
thick. Early sown wheat in shot blade. Labor scarce
and expensive. Farmers and expensive. $\begin{aligned} & \text { Farmers anxious regarding binder } \\ & \text { twine supply. }\end{aligned}$ Lloydmininter.-Wheat eighteen inches, early oats twelve. Weather warm with an ideal growing,
rain Thursday rain Thursday night. Every indication of a heavy
crop. Spring was late, but in ten days will be as far crop. Spring was late, but in ten days will be as far
advanced as last year: Grassy Lake.-All field crops
in this district are in excellent cond oats, barley and rye are heavier and better than they have ever been since this part of the country was settled.
Corn and flax are good, but need warm wite Corn and flax are good, but need warm weather.
The wheat crops are uneven around Medicine Hat, Alberta. Fallow wheat is heading. The late-sown crops are all late-sown, but growing very puickly oat potato crop is very promising indeed. Flax is well up. Jenner.-Sufficient moisture here. Surrounding crops Irwin, condition, some, wheat heading out. Supervisor of Illustration Stations,
reports that a large percent reports that a large percentage of crops in Southern
Alberta stubbled in suffered considerably for tack of rain recently, but rains of past few days have brought
them on in good shape again. from early high winds, but rains of last week in and later relieved situation. Hoed crops look well. crop outlook excellent, being Lethbridge.-General crop outlook excellent, being as good as last year.
Munson.-Crops in this district are exceptionally good; a good even stand all over the ground; lots of
moisture to insure a crop, with occasional warm showers ${ }_{22}$ and warm days. Grain growing very fast. Wheat 22 inches high. Indications of a bumper crop. Car-
mangay.-Crops are looking well. Beneficial rains mangay.-Crops are looking well. Beneficial rains
have failen the last two days. A good crop is looked for if it does not get frosted. Pincher Creek.- Ben condition of the grain and hay crops is excellent. Hoed crops and later cereals have germinated evenly and are coming along well. Macleod.-All grain crops are
looking well. Some wheat starting to head. Prospects bright for bumper crop. Plenty of rain during June.
Lacombe.-Cool weather until early June delayed ${ }_{30}$ inches but promoted root development. Wheat over $21 / 2$ inches has been cool at Agassiz, B. C., with week was quite warm. Highest tersprature. One eight. Conditions have been excellent for crop eighty Cereal, root and corn crops doing well. Season three weeks later than last year. Clover for siligee harvested.
Invermere.-Crops backward but promise well. Alfalfa
and clover ready to cut. Cutworms have caused con-merland.-Irrigated land very poor garden truck, Sum Beneficial rains have fallen this week and will help rang land and cereal crops. Victoria,-June very dry, All
crops below average. has improved the prospect for spring last days cereals, forage crop and orchard fruit.

## Freight Rates Are Boosted

Aiter deliberating nearly two years the Railway Commission last week gave judgment in the eastern east. The Railway Company, on the ground of of at least 5 per cent. Thislied for a flat increase substantial increr cent. This was not allowed, but pers will very soon be furnished with a pinted card be given by the railway companies before they go
The findings regarding the class tariffs may, how. ever, briefly be summarized. In the territory bounded
on the west by, but ond by the Georgian not imcluding, Port Arthur, River, and on the east by Quebec and Detroit also between C. P. R. stations in New Bregantic, the class rates, provided they are now lower than the standard or maximum mileage tariff, may be increased by two cents in the first, and one cent in- the fifftr
classes, the rates for the other chasse proportioned in accordance with the se properly scale. An exception is made of the lines of the Cand Sodian Pacific and Canadian Northern between Parry Sound and Sudbury, on which no increases are allowed. rates to the Maritime Pravely lower level of the are permitted. Between points in theater increases Quebec Levis and Nova Scotia and points west of Valleyfield, and north of the Ottawa Rivertreal and class will be advanced four cents and the fifth class
two cents, the other the same Maritime sections in proportion. Between real, the carriers are authorized to pincs west of Montby six cents for the first class and three enter rates filth, the remaining rates fitting in from the standardized
An exception is made of the line of the C. P. R. in the St. John River Valley, where the rates, instead so as not to exceed the St. Iohn by the company being due to the opening of the rates, this relief continental, south of Edmundston, N. B.
the jurisdiction of the Board, the not subject to National Transcontinental Board, the Intercolonial and free to fix its own rates. 'Neverthelest is, of course, free to fix its own rates. Nevertheless, the judgment
provides that the through rates of the Grand Trunt

Canadian Pacific and other independent companies in Ouebec and Ontario, to Intercolonial points east
of S. John to Halifax and Sydney, are to preserve of St. John to Halifax and Sydney, are to preserve
the same differences, if any, over the St. Jofin rates as at present.
The reasons given for the increase are that operatto 1914 earnings increased 10.6 per pertiod from 1910 17.7 per cent. In 1915 earnings increased 55.3 per 38 per cent. more in 1914 than in 1907 , ties cost they were 45 per cent. higher. Fuel was un 30 per cent. in 191415 over 1907. Salaries and wages represe bill of the Grand Trunk railway expenses. The 1909 to 1914 the Grand Trunk increased in the period. was 50 per cent. Wages are increasing all the time Trunk at their highest in 1913 amounted to Grand per mile. In 1914 they were $\$ 3,059$ and in 1915 , , The
with respect to repairs which no long certain economies with respect to repairs which no longer can be pracfreight cars at a cost of $\$ 2,238,000$. Track renewew have dropped from the normal of 431 miles in a year to 67 miles in 1915.
until the proposed increases on fruits are deferred until they can be considered along with proposed now under suspension. The effect of new competing lines, e.g., the Canadian Northern, recently constructed, is not' considered in striking a reasonable basis. The increases made are justitiable entirely on the mere fact of the in
creases in Grand Trunk expenses, and having regard to traffic of normal years.
meaning the class tariffs of general application, with the freight scales used everywhere in connection railvay corgin classification, the application of the fifty exceptional comprises over one hundred and lify exceptional or special single rates, and more or les comparative schedules of exceptional rates, lower Findings were all based on G. T. R. earningtities.

## The Ottawa Winter Fair.

At the annual meeting of the Ottawa Winter Fairy elected for the coning yeare Hon. Presidents, Johr
Bright, Ottawa; Peter White Tomith Cowan Canwa; Peter White, Tororto: Col. W. J. Columbus; Vice-President, $\mathrm{J}, \mathrm{C}, \mathrm{Cm}$. Smith, M. R.;
General Director, R. W. General Director, R, W. Wade, Toronto; SecretaryThe show held January, 1018.
yond expectation, being the largeen in the a merccemo bs organization, January 16, 17, 18, 19, are the datel
for the 1917 show.

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

## Toronto.

 The total receipts of live stock at the
two morkets for the corresponding week

butcher steers and heifers were steady
to form all week at from 89.85 to $\$ 10.25$, a few extra, choice loads bringing as
high as $\$ 10.75$. There is a good dehign for good to choice butcher cattle
mand
of the of all kinds., but farmers must not send

inferior and unfinished catte | inferior and |
| :--- |
| top prices. | Cows.-These, too, show strength,

and remain firm at prices as quoted Stockers and Feeders.-Dealers in this kind of cattle cannot beain to oft1
orders for the good animals. On n dealer alone has orderd for for eight car laoads
which cannot be fill which cannot be filled, as neither he he
nor his customers will take inferior to
no poor-quality cattle.
same as the previous week. much the a stady market at from $\$ 60$ to $\$ 100$
each.
Vith a calves.-Receipts were moderate with a strong demand for the better
quality. Choice veal selling for from
inc
 Sheep and Lambs. Rececibts were not large and prices remained firm for sheep,
while lambs were stronger. Heavy, fat sheep and unfinished lambs are, not
wanted and are very hard to sell.
 the packers, which were, fed and watered
sil.10; weighed off cars, 811.65 ; fo o. b.,
810 .
 hogs will be 2 25. lower this week
Byyers and sellers both expect lower prices will prevail next week, especially
in spring lambs and hooss.



common, $\$ 5$ to $\$ 5.50$; canners and cut-
ters, $\$ 3.75$ to $\$ 4.25$.
to tors, $\$ 3.75$ to $\$ 4.25$. Bulls, choice $\$ 8$
to $8.25 ;$ good, $\$ 7.75$ to $\$ 8$; medium,
$\$ 6.50$ to $\$ 7$; common, 85.25 to 88
N Milkers and springers, best, $\$ 80$ to $\$ 100$ medium, $\$ 60$ to $\$ 80$. Veal calves
choice choice, 11 c . to 12 c . per lb .; medium,
 10c. to 12c. per 1 lb ; ; yearling lambs,
 5 c. to $51 / \mathrm{cc}$. per lb. Hogs, weighed of cars, $\$ 11.65$; fed and watered, $\$ 11.40$;
f. o. b., $\$ 10.90$.

Country Produce.
Butter-CButter firmed slightly on
the wholesales during the past week. Creamery, freshes during the past week.
Cound squares selling at 30 c . to 32 c .; creamery solids at and d dairy at 23c. to 25 dairy at
Ega.
Eggs.-New-laid eggs also advanced from one to two cents per dozen, selling
at 30 c . to 31 c . per dozen in case lots, and 33 c . per dozen in cartons.
Cheese.
Old,
21 neww 18 c . to 19 c , per lb . 22
Honey.-Is off the market.
Beans.-Primes, $\$ 4.20$; hand-picked,
Poult
tinue
tinue to be light, chicken receipts conmained about stationary during the past week. Fowl receipts are heavy
with a good demand. Sore only being received in small quantities ${ }^{35}$ c. per 1 l . spring Spring chickens, 35 c. per lb.; spring ducks, 20c. per lb b; ;
fowl, 4 lbs and over, 17 c .


Hides and Skins.
City hides, flat, 20c.; country hides,
cured, 18c.; $\begin{aligned} & \text { country hides, part cured, } \\ & 17 \mathrm{c} \text {.; country hides, green, } 16 \mathrm{c} . \text { curalf }\end{aligned}$

## 



 unwashed, 32 c . to 35 c . per th.; tallow,
No. $1,6 \vdots \mathrm{c}$. to $7 \% / \mathrm{c}$.; solids, 8 c . to $7 \mathrm{7c}$.

## Breadstuffe.

Wheat. - Ontario, ${ }^{\text {(according }}$ to
freights outside) No. 1 commercial, 97 c . o 98 c .; No. 3 commercial, 87 c , to 89 c , accordBC. to 85 c . Manitoba wheat (track,
bay ports), No. 1 northern, $81.19 \%$ i No. 2 northern, $\$ 1.181 / 4$; No. 3 northern,
$\$ 1.1476$ \$1.147/3.
Oats. Oats.-Ontario, No. 3 white, 47 c c to 48 .., according to freights,
coutside; oats (track, bay ports) No. 2 C. W., 51c.; No. 3 C. W., $50 \%$ c. c .; extra No. 2 . feed, $501 /$ c.; No. 2 feed, 49 c .
Rye-No. 1 commercial, 94 c . to 95 c .
Buckwheat. $\mathrm{Nominal}, 70 \mathrm{c}$. to 71 c . according to freights outside.
B6arley-Ontario, malting, 65cc: to barley, 60 c . to 62 c ., according to freights outside
American Corn.-No. 3 yellow, 83 c .,
Prack, bay ports,; 87c., track, Toronto.
peas, according to sample, $\$ 1.25$ to
Flour.-Ontario winter, 84.05 to
in bags, track, Toronto; $\$ 4$ to $\$ 4.10$,
bulk, seaboard. Manitoba
flour-Prices
bulk, seaboard. Manitoba flour-Prices
at Toronto were: First patents,
86.50 , at roronto were: ${ }^{\text {First }}$ patents, $\$ 6.50$;
second patents, $\$ 6$, in ${ }^{2}$ jute; strong


Hay and Millfeed.
Hay.-Baled, car lots, track, Toronto
best grade, per ton, $\$ 16$ to $\$ 17$; No. low grade, $\$ 13$ to $\$ 15$. lots, $\$ 6$ to $\$ 7$, Straw.-Baled, car,$~$ track, Toronto.
Bran, $\$ 19$ to $\$ 20$ per ton; shorts, $\$ 23$
to $\$ 24$ per ton; middings, $\$ 24$ to $\$ 25$ Bran, $\$ 19$ to $\$ 20$ per ton; shorts, $\$ 23$
to $\$ 24$ per ton; middlings, $\$ 24$ to $\$ 25$
per ton (Montreal freights, bags in-
 $9 \$ 1.60$
Wholesale Fruits and Vegetables. Strawberry shipments were heavy at the beginning of last week with lower prices, but weakened considerably to-
wards the end, and advanced slightly; wood fruit selling at 9 c . to 11c slightly; and poorer at 7 c . and 8 c ., the lighter shipments being caused by the canners using so much of the fruit.
Cherries increased in quantity and selling as follows: black eating the week, selling as follows: black eating cherries,
$\$ 1.75$ to $\$ 2.50$ per 11 gts.; $\$ 1$ to $\$ 1.25$ per 6 qts.; white eating, 75 c . per 6 qts ;
$\$ 1.50$ to $\$ 1.75$ per 11 qts.; sour variety, 75 c . to $\$ 1.25$ per 11 qts., and 35 c . to
60 c . per 6 60c. per 6 qts. The quality, however, became so poor towards the end of the almost unsalable, and prices dropped considerably-the black eating selling
at $\$ 1.25$ to $\$ 2.25$ per 11 qts.; some poor at $\$ 1.25$ to $\$ 2.25$ per 11 qts.; some poor
ones going as low as 50 c .; the white ones going as low as 50 c .; the white
variety at 90 c . to 65 c . per 6 ts., and variety at 2 cc . to 65 c . per 6 qts , and
75 c . to $\$ 1.25$ per 11 qts. The sour 75 c . to $\$ 1.25$ per 11 qqts . The sour
ones bringing 65 c . to 85 c . per 11 qts ., and 25 c . to 50 c . per 6 qts .
Large, good quality gooseberries sold at fairly good prices, but the small, poor quality fruits were hard to get
rid of, as there was no demand for them; the prices now ranging from 25 c . to 40 c ., and 50 c . per 6 qts., and 60c. to $\$ 1$ per 11 qts.
The California fruits came in freely and sold well; St. John peaches selling at $\$ 2$ per case; Bartlett pears at $\$ 4.50$ case. The first Canadian beans for this pea son arrived on the market last Tuesday and were of splendid quality, selling at in price towards the end but decreased in price towards the end of the week,
as the shipments became heavier selling at 75 c . to $\$ 1$ per 11 -qt. basket.
freely, and are improving in quality selling at 35 c . to 40 c . per dozen bunches. quality, and advanced slightly, selling quality, and advanced
at $\$ 3.75, \$ 4$ and $\$ 4.25$ per case. New potato shipments continued to increase, and are steadily decreasing in
price, closing at $\$ 4.35$ to $\$ 4.50$ per bbl price, closing at $\$ 4.35$ to $\$ 4.50$ per bbl.
Lettuce was of very poor quality and was-a slow sale, selling at 15 c . to variety bringing 40 c . Canadian Head Watermelon receipts were heavy, the price ranging from 40 c . to 75 c . each, according to size and quality.
Oranges were a slow sale,
$\$ 4.50$ per case. a slow sale, at $\$ 4$ to selling at $\$ 4.50$ per case, and Californias at $\$ 4.75$ per case case, and Californias

## Montreal.

The trade in the local cattle market was not particularly active during last hot and unfavorable to consumption of fresh meat. Prices were rather lower than those of the previous week,
although the supply of cattle was limited, Demand from butchers was moderate, and sales of best steers took place at
$91 / 2 \mathrm{c}$. to $93 / 4 \mathrm{c}$. per lb., while mediums brought 8 c . to $81 / \mathrm{cc}$., and commoner
grades down to $71 / \mathrm{c}$. Butchers' grades down to $71 / 4 \mathrm{c}$. Butchers' cows
ranged all the way from $61 / \mathrm{c}$ for the commoner, and up to $81 / 4 \mathrm{c}$. for
good to fine, while bulls ranged from $63 / 4 \mathrm{c}$. to $81 / 2 \mathrm{c}$., according to quality.
Offerings of sheep and lambs were small, and trade was consequently on the
quiet side. The price of sheep, however, quiet side. The price of sheep, however, at $\$ 6$ to $\$ 8$ each. Calves were in good demand and the market was on the firm side, with sales of choicest taking
place at $111 / 2$ c. per lb., and of good at
10c. to 11 c ., while the common rac. to from., while the common stock
market for hogs was quite firm, The prices showed a fractional advance. Selects were sold at 12 c . to $121 / \mathrm{cc}$. per
lbe, and rough hogs at $11 / \frac{\mathrm{c}}{} \mathrm{c}$. to $113 / 4 \mathrm{c}$.
per lb . per Horses. - The market for horses
showed very little change. Demand and
supply were both exceedingly light and prices showed practically no change, as 1,500 to 1,700 lbs., $\$ 200$ to $\$ 250$ each; light draft horses, weighing 1,400 light draft horses, weighing 1,400
to $1,500 \mathrm{lbs}$., $\$ 150$ to $\$ 200$ each; small horses, $\$ 100$ to $\$ 125$ each; culls,
$\$ 50$ to $\$ 75$ each, and fine saddle and $\$ 50$ to $\$ 75$ each, and fine saddle and carriage horses, $\$ 200$ to $\$ 250$ each.
Dressed Hogs.- Offerings of dressed Dressed Hogs.-Offerings of dressed hogs were not quite so large as usual,
owing to the smaller. supply of live coming forward. Prices, however, continued firm at $161 / \mathrm{cc}$, to $161 / \mathrm{c}$. per lb .
for abattoir, fresh-killed stock. Potatoes.-With the season for old
crop potatoes pretty well over prices crop potatoes pretty well over prices
continued moderately firm with stock selling generally at $\$ 1.80$ per bag of 90
lbs. ex-track, with 15 c , to 20 c . added for smaller lots, ex-store. Demand is bebginning to run to American new crop potatoes. These were quoted $\$ 4.50$ to Maple Syrup and Honey. The quality. was steady and demand was not very active. Eight-lb. tins of maple syrup were 85 c . to 90 c . each; $10-\mathrm{lb}$. tins, $\$ 1$ to $\$ 1.10$; 13-1b. tins, $\$ 1.25$ to $\$ 1.50$, according to quality. Sugar was 13 c 15c., and extracted $121 / \mathrm{sc}$. Brown clover comb was $121 / \mathrm{c}$. to 13 c . and extracted 10 c . to 11 c ., while buckwheat honey was ${ }^{9}$ c. to 10 . Eggs . The lb .
the slight advance which recently the slight advance which recently per dozen; No. 1 selected being 32 c .
No. $2,30 \mathrm{c}$. No. $2,30 \mathrm{c}$.; No. 1 candled, 28 c .; No. 2, per dozen.
than a week ago, were slightly firmer than a week ago, and there was said
to be some export demand creamery sold at 30 c . to $301 / \mathrm{c}$. per 1 lb .
with fine about $1 / \mathrm{c}$. under, and creamery at $281, \mathrm{c}$, under, and ordinary ranged from 22 c . to 25 c ., according to quality.
Cheese
place in prices. Finest Western took quoted at $15 \% / \mathrm{c}$. to $15 \% / \mathrm{c}$. per 1 b , was fine Eastern at 16 c . to $161 / \mathrm{cc}$. per 1 lb ., with fine cheese $1 / 4 \mathrm{c}$. below this range. Grain.-The market for oats showed
slightly easier tendency. No. 2 Canadian slightly easier tendency. No. 2 Canadian
Westerns were quoted at 54 c . to $541 / \mathrm{c}$. per bushel; No. 3 at 53 c . to $531 / 2 \mathrm{c}$. . extra No. 1 feed, 53 c . to $531 / \mathrm{C}$.; No. 1 feed, 52 c. to $521 / \mathrm{c}$. Ontario and Quebec No. 2 white oats sold at $521 / 2$ c.; No. 3 being
$511 / 2$ c., and No. 4, $501 / 2$ c., ex-store. Flour. -The local market for flour continued steady. Prices were unchanged and demand was light. Manitoba first patents were $\$ 6.60$; seconds per barrel, in bags, flour in wood being was extra. Ontario winter wheat flour was quiet, with choice patents selling
at $\$ 6$ to $\$ 6.25$ in wood, per barrel, and 90 per cent. at $\$ 5.40$ to $\$ 5.50$,
and straight rollers at $\$ 510$ to $\$ 5.30$. and straight rollers at $\$ 5.10$ to $\$ 5.30$; 90 per cent. were $\$ 2.55$ to $\$ 2.65$ per
bag, and straight rollers $\$ 2.40$ to $\$ 2.50$. Millfeed.-Bran sold at a slightly
lower range and was quoted at $\$ 20$ to $\$ 21$ per ton, in bags, in car loads,
with shorts at $\$ 23$ to $\$ 24$; middlings $\$ 25$ to $\$ 27$; pure grain mouille, $\$ 31$ to $\$ 32$, and mixed mouille, $\$ 27$ to $\$ 29$. higher last week. They were quoted to quality. Calf skins were steady at 33c. and 31c., and lamb skins were up to 65 c . to 70 c . each. Horse heres and rough tallow was $11 / 2 \mathrm{c}$. to $21 / 2 \mathrm{c}$.

Cheese Markets




## Chicago.




 bulk of sales so.75 to piss. 88.8 to 89.50 ,
Sheep.

## Buffalo.

Cattle.-With receipts comparatively light last week, cattle prices showed a steers reaching a record price of $\$ 11.50$ with quite a few sales running from $\$ 11$
to $\$ 11.35$. In the neighborhood of to $\$ 11.35$. In the neighborhood of
twenty-five loads of steers suitable for twenty-five loads of steers suitable for the shipping demand, and these found factory deal on butchering cattle, the advance on these, as was the case with the shipping steers, being from fifteen cents to a quarter. Best handy, butcher-
ing steers ranged from $\$ 10.15$ to $\$ 10.40$, ing steers̀ ranged from $\$ 10.15$ to $\$ 10.40$,
with yearlings running from $\$ 9.75$ to $\$ 10.25$. Beat heavy heifers sold up to $\$ 9.25$, best heavy, fat cows $\$ 8$ to $\$ 8.35$, and best, handy butchering heifers of the week, the market weakened somewhat, as the result of a flood of the decline at Buffalo did not figure the decline at Buffalo did not figure on the grassy grades. Grass cattle are not as desirable for the killers as the dry-fed kinds, but some of the grassers are better than others, and the ing in the buying of the range stuff Stocker and feeder trade showed some improvement the last week, as did
bulls. Dairy cows of all kinds showed a better outlet, and the market on these is expected to show a better condition totaled 3,075 head, as against 3,850 for the previous week, and 4,825 head for the corresponding week a year ago. Quotations:
Shipping
Shipping Steers.-Choice to prime $\$ 10.25$ to $\$ 10.75$; plain, $\$ 9$ to $\$ 9.25$ good, coarse and common, 850 to $\$ 9.25$; very Canadians, $\$ 9.75$ to $\$ 10$; fair to good $\$ 9.25$ to $\$ 9.50$; common and plain, $\$ 8.50$ to $\$ 9$.
Butchering Steers. - Choice, heavy
$\$ 9.75$ to $\$ 9.75$ to $\$ 10.25$; fair to good, 9.25 to $\$ 9.50$; best handy, $\$ 10$ to
$\$ 10.40$; light, thin, $\$ 7.50$ to $\$ 8$; yearlings prime, $\$ 9.75$ to $\$ 10.25$; yearlings, common to good, $\$ 8.25$ to $\$ 9.50$; best, handy butcher heifers, $\$ 8$ to $\$ 8.50$; common to good, $\$ 7$ to $\$ 7.75$; best heavy, fat cows,
$\$ 7.50$ to $\$ 8$; good butchering $\$ 6.50$ to $\$ 8 ;$ good butchering cows $\$ 6.50$ to $\$ 7.25$; medium to fair canners, $\$ 3.25$ to $\$ 4.25$ Bulls.-Best heavy, $\$ 7.50$ to
good butchering, $\$ 6.25$ to $\$ 6.50$.
Stockers and Feeders.-Best feeder $\$ 7.50$ to $\$ 7.75$; common to good, $\$ 6.75$ common to good, $\$ 6.25$ to $\$ 7$.
Milchers and Springers.-Good to
best, in small lots, $\$ 80$ to $\$ 100$; in ca loads, $\$ 70$ to $\$ 75$
Hogs,-Buffalo had a rattling good hog market last week, prices holding day of the week was Thursday when top was registered at $\$ 10.55$, with bulk going at $\$ 10.50$, and on only one or two occasions did any of the hogs fall
below $\$ 10.40$, latter price being secured below $\$ 10,40$, latter price being secured
for the bulk Monday, Wednesday and Friday. Pigs held to a high level last week, selling generally at $\$ 10$, roughs
mostly $\$ 9$, and stags $\$ 7.25$ down. Receipts last week reached approximately head for the week previous, and 24,700 head for the same week a year ago, tinued to run very light - Receipts conhead being marketed last week. Offerings were against 3,658 head for the
week before, and 4,900 head for the same week a year ago. Last week
started with top lambs selling $\$ 12$, but before the week was out buyers got choice springers at $\$ 11.50$, and culls
ranged from $\$ 10$ down. Best yearling ranged from $\$ 10$ down. Best yearling
lambs sold at $\$ 9.50$ and $\$ 9.75$, top wether sheep could hardly be quoted
above $\$ 8$, and ewes, which comprised the bulk of the sheep receipts, ranged from $\$ 7.50$ down, heavy ones being hard to land above the $\$ 7$ mark.
Calves.-Last week started with top veals selling generally at $\$ 12$, Wednesday Thursday tops again reachede $\$ 12$, and Friday, under a red-hot demand, best
ots were landed as high as $\$ 13$. Cull grades sold well, best desirable ones
bringing within $\$ 1$ a bringing within $\$ 1$ of the tops. Buyers and, as a rule, kinds weighty calves,
200 pounds sirable lots of the same quality and
finish by from $\$ 2$ to $\$ 3$ per cwt. Re-
ceipts last week were 2,100 head, as previous and 2,525 head for the week -uye

## Questions and Answers. <br> Veterinary.

## Ringbone.

Three-year-old colt has a ringbone on each hind pastern. I have had them lame.
Ans.-An animal frequently goes lame for several months after being fired and ness disappears as a result of the operation If lameness continues for 10 months after the operation, have him fired and blistered again, and if this fails to cure all that can be done is to get your vet erinarian to perform an operation, know

Lumps in Throats-Arsenate of Lead
Calves 3 and 4 weeks old have a swelling about the size of a man'
fist just behind their jaws. They seem to cause difficulty in breathing.
3. Other calves this trouble? similar lump which disappeared in a few weeks. bugs?
Ans-1. These lumps are enlarged thyroid glands. In many cases they disappea spontaneously. Get an ointment made of 2 drams each of iodine and iodide of potassium mixed with 2 ozs, vaseline cases where there is danger of suffocation a veterinarian can operate.
2. It is not known just what causes water Many claim that it is due to the great a per the cow, containing to great a percentage of lime.
who takes and any animal or person
Puffs on Knees-Indigestion.

1. Colt when born had soft lumps on the outsides of his knees, and is some what weak in the knees. I am told
that there are grubs in the knees. Had they better be taken out?
2. Occasionally a cow seems to be are fed bran, oil cake, meal and grass.
W. J. M.
"Ans.-1. There is no such condition surub is you mention are not uncommon, and they gradually disappear as the colt grows older. No doubt your colt will gradually gain strength in his knees Keep mare and colt in a small paddock by themselves, in order that the colt may
take what exercise it needs, but not be take what exercise it needs, but not be forced to take too much nor be liable
to rough usage by other horses. If the puffs have not disappeared by weaning time
sorbent.
No fault can be found with the feed. When a case appears give $1.1 / 2$ pints drams of nux vomica 3 times daily.

Fatality in Cow.
Five days after calving my cow bloated, lost power of the hind legs and died in the afterbirth in her stomach. Why do

Ans.-We cannot tell why cows are inclined to eat the afterbirth, but such endanger life, but usually causes diges not rouble and lessens the milk supply for especially rare cases it does not digest, passage from arteries, stops up the intestine and causes death into the or an attack of milk fever, caused death in your cow. The latter disease would not be likely to cause death so soon, unless medicines were given by the fluid would be very liable portion of the the windpipe to the lungs and down death. This occurs from the fact that in these cases the patient loses the power endeavor sollow. It is always wise to endeavor to prevent a cow from eating
the afterbirth, by keeping her tied until
it is expelled, and then


Coment Sir Dowelan Finis. Finciefofle Piath forces in

## An Orchard in Rain.

by monace motisy. I stood mithe ane acciarky. during rain 0 joveris to the drops ryy aching brow: I slip, with trees, and clouks, the social Alone chith mature, maught to lose or Nor evee to becomee; na, just to be From meeds ptint mold the wheart to Arise, I cried, and cel
cochin corolebrate the hour! Ner courres mobler vision it ith survi hat I have heown my kinship to the My brothertiood with rain, and in this Have been a
-

## Travel Notes.

(From Hicka's Diarg.) Les Avanta Smitr The Nerciemes Fiolte Noo materer how hish upy you go in Suituerthend there is alvays something thinger up, hend it jues seems hite a be ginginp, Fand it jur below I Iane see the

 sevea joesed smomecpis All around spiring peak is Avants is sort of hokein-the emall protected on all sides but one by towal ing moumtains The stecp slopes of these mountains are mow emerald,
exapt
pation they patches of white Seem from the valley but when ome rooch hes them the snow. changes imto $a$ frdd of white stars, Thd the air is fult of a dolicions fragrance.
In Montrear the Narcisus Festival Sut not of the events of the season.
But
wil the sere The war has killed all the Seiss fectivals The Narcisuss grows at an altitude
 isit the thom Alpo expressly to people

to wade in the fields and pick as many flowers as they can and pick as many are easily reached by the mountain go that and the majority of visitor gownat way. Some ride up and wall entire trip on their own two feet. The Swiss begin to climb early in life
They have to. And they keep righ on till they get to be a hundred or so I saw venerable couples (probably the were somebody's great-grand-parents much ease as if they were on leve ground. And I sow many family parties on the mountain paths, and were jogging along on their chubby their elders. Occasionally migh as carry the youngest a-straddle his neck for a bit if the path was very steep. The as easily as a fly meanders across a as easily as a fly meanders across a
ceiling- One of their greatest delights
is to start up a mountain at midnight is to start up a mountain at midnight, I think some of the people I saw sound asleep on the Narcissus slopes must This is pedestrians of that ilk.
This is Sunday, but I think all the body seems to be empty. because everyand special trains have brought thens ands and thousands of people to Les Avants to see the Narcissus fields, which just now are at their best. Everybody is gay and happy and loaded with crowded, the streets of the village are the shops are crowded, and people are swarming all over the mountain slopes. Except for the presence of the French soldiers in their uniforms one But the invalid soldiers was a war. prove it. This is the part of Switzerland where so many of the French and Belgians are interned. What a glorious change for them to be free to roam over these flowery hills after months
All the way up the mountain from sight. They soldiers were ever in couples, in groups; they were standing at the stations, staring out of windows, and trudging along the road, often ac coassengers in the traing children. The passengers in the train were in a con-
tinual state of waving their handkerchiefs out of the windows, the soldier responded with the military salute andsumies. 1 never saw so many limping men in my life, but even those on pretty fast. Some of them looked ground ill, very pale and thin and haggard and about every third soldier I saw had his ears stuffed with cotton wool. The interned soldiers are not under the Control of the Swiss military authorities Within certain defined areas they are domiciled in groups in various pensions and hotels, according to their rank. The ordinary soldiers who are not too ill are obliged to do a certain amount of work every day. Some of them work in the fields, some of them do the houseat one of the stations. The officers are usually assigned quarters in the best hotels, and are allowed to have
their families with them. In this hotel the third and fourth floors are They mingle freely with the officers. Most of the officers have terribly guests. faces, but otherwise seem to be leading an easy life
French officers interned that arrange ments are being interned that arrange school for the French children who are There are now parents.
thousand invalid soldiers from the bellig erent nations, and more are coming.

Monday afternoon. Such a change from yesterday! To day all is quiet and serene. No people Hardly a sound.
I am sitting on the terrace in front of the hotel having tea-alone.
At the end of the terrace is a French At the end of the terrace is a French
officer having tea-alone. Now, if only there was a table in the middle, a small table, just for two, and we were both at it, how much Toot, toot! Squawk, squawk!
An auto comes crashing up
An auto comes crashing up to the A party of four get out, take the They are English-elderly. There fat man with a thin wife, and a thin man with a fat wife. Makes me think of the nursery rhyme about Jack Spratt. by high and noble utterances. They will, of. course, talk about the war, colonies, about the British prisoners in Germany, about President Wilson, and That is what I thought they would talk about. That is the sort of con versation I expected to hear from four gray-haired, sedate-looking English peo-
What they really did talk about was
From their uplifting remarks on this sweet subject I gathered that in Vevey there is a little shop near the English church where a perfectly delicious kind of jelly-cake is made. The fat man expatiated so eloquently on its extrawatered. (I was munching sawdusty biscuits at the time.) The thin man then spoke up and told about a place in Montreux where they made a
be beat.
The comparative virtues of illy-ate and gingerbread were then discussed animatedly by the entire group, but sponge-cake was better than either. ingly. sidered very clever humor that he and his wife could never agree about cake, but in spite of this difference of opinion question of divorce "Have we, Dear?" he asked
The question of cake having been discussed exhaustively, another subject was introduced.
The stout gentleman, it seems, w he went any place where there whenever to be a shortage of seats, he took a camp-stool with him. There was a certain kind of camp-stool, he said, considered the west on the warket he The thin man was glad to market. it, and wrote down the name in his notebook.
While this was going on the two wamen fell into a wrangle about the The men having finished camp-stools, entered the discussion with great vigor ""You know, Dear," said the fat man "it was the day after we took that Dear said Lausanne. Dear said she thought it was the The fat man took two or three gulps of tea, by way of protest, and changed This time the topic was semi-religious

How to wring more money out of the From how to get money, the conversation changed to how to save money the especial form of economy discussed The fat man had very pronounced views on this subject. He explained them at great length, and emphasized down on the table with such enerey that the cups danced a jig in the saucers. He didn't believe in indiscriminate tipping. No, not he. The proper way planation was so long and tiresome exthe thin man began to yawn, and the thin man's wife grew restlese. Then Dear, with great tact, sail , Id a mild sort of voice, that she feally thought it must be time for them to
Toot, toot! Squawk, squawk!
And of they went down the hill. And again there is quietness and serenity and peace.

Geneva, May 31. The English soldiers are in SwitzerGeneva papers announced to-day in big Geadlines that. the "Tommies" had arrived.
The Swiss people received them with tremendous enthusiasm. At Zurich there was an enormous crowd to meet them They were showered with flowers and and loaded with presents. night and halted there two hours Berne is the most pro-German hours. in Switzerland, but in spite of this there was an immense gathering at the stacion to see and welcome the English
soldiers. Although many of them terribly wounded, their dignified appear ance made a great impression on the people. A lunch was provided for them in the station cafe, but many of them were too ill to leave the train,
At Lausanne the same, at Vevey the
At Montreux they breakfasted at sir o'clock on the terrace of the. Hotel


William Tell.

Suisse, to the inspiring strains of IIpperary. So great were the demonthe British soldiers were quite overcome In spite of their heroic efforts to restrain their emotion the tears welled up in their eyes and rolled down their haggard cheeles.
At eight o'clock they took the mountain train for their destination-Chateau d' CEx, a little town near Les Avants. Every station along the route was
crowded with natives and French soldiers crowded with natives and Enelish

In this convoy are 304 men, including thirty-two officers. There are a number of Australians and Canadians, some Sikhs and Gurkhas, and two Japanese. Fifty-four of the soldiers have been sent to Leysin for treatment. In a week or two we expect to take
a trip on the Berner-Oberland, and
stop off at Chatteau d' do see the stop off at Château d' Ex to see the
British soldiers.

## Mexico.

In vievr of important developments that have seemed imminent between Mexico and the United States, it is interesting to note that the troublesome, southern country has an area of 767,323 square miles, with a population of
About seventy years ago the United States, during a somewhat similar period of disorder, made war upon covering two years, took as indemnity the areas now known as the States of Utah, New Mexico, Arizona and California, in addition to Texas, annexed a year before war was declared, a total of 918,000 square miles.

For the last three years the Mexican Republic has been torn with civil strife, and the lives of several Americans and other aliens have, from time to
time, been sacrificed, chiefly by maraudtime, Villa bands. Carranza did nothing to prevent, so when, finally, outlaw raids were made into American territory, a punitive expedition of American soldiers was sent into Mexican territory. On June 21st two troops of these, colored regiment, were even fired upon by Carranzista troops near Carrizal. Immediately two troops of the Tenth Immediately two troops of the Tenth
Cavalry, under Captain Boyd, marched Cavalry, under Captain Boyd, marched
into Mexico, but were practically surrounded by Mexican troops, a development which was met by President Wilson by an order for the mobilization of all the militia of the United States to resist, if necessary, invasion from the Mexican border. War seemed at hand, but on July 5th, a conciliatory note from and for the present the crisis appears to be averted.
Of the total imports into Mexico, says the New York Times, 47.8 per cent. are from the United States, which takes in return 75.8 per cent. of all Mexican exports. The imports into the United States from Mexico for 1915 totalled $\$ 77,612,691$ in value; the ex ports into Mexico from the United
States amounted to $\$ 34,164,447$. Mexico exports chiefly sisal fibre, crude oil, cattle and hides expol fibre crude oil, cattle and hides, copper
coffee, and guayule rubber. The mos important of these, perhaps, is sisal fibre, largely use ${ }^{4}$ in the making of binder twine.

## Hope's Quiet Hour.

## A Remedy for Pin Pricks.

I cried unto the Lord with my voice before Him; poured out my complaint rouble.-Ps. 142:1, 2
Sometimes the cure works in an un expected fashion. God is not like an self-pity. One day I followed the self-pity. One day I followed the rather a shock. I had been nursing pin-prick trouble, until spiritual bloodpoisoning had set in and it became really very painful. Like a hurt child I took my complaint to the Great Father and showed Him my trouble. Looking up to Him for consolation and sympathy
I seemed to see Him take up my tiny
trouble and hold it up with grave sternness against the dark background of multitudes of wounded soldiers, laughing and joking in the crowded hospitals. I saw mothers and widows bravely lifting their heavy burdens of anxiety
and sorrow. My Master-Whom I and sorrow. My Master-Whom I was professing to follow-thinking of the sorrow of others until He almost forgot His own awful agony. Do you
wonder that I was filled with shame
as she drove to the cemetery to-day? Of course, she saw the rain, but it was a matter of utter indifference to her. in the great sorrow.
Many pin-prick troubles and worries will vanish of themselves if we refuse to look at them. Perhaps someone has wounded your feelings and you go over and over the matter in your mind, pitying your poor the kind you have done


Swiss Scene in Narcissus Time.
and asked God to forgive my selifish complaining, to throw my tiny trouble behind His back and forget that I had mentioned it? Does a soldier on the battlefield go to his general for sympathy could he has cut his finger? If he the general would give him sympathy, or a stinging rebuke?
small-is to bring them before the Lord


Narcissus Fields near Caux,
Caux ( 3678 ft . altitude) is a resort directly above Montreux. The building on top of the precipice is the
Palace Hotel. All around it on the edge of the bluff is a magnificent stone errace, electric-lighted at night.
But, if we lay our small troubles at
His feet, we may find that away until we can't see them at all. away until we can't see them at all.
I have just come in from a funeral a poor woman lost her husband a year ago-he was killed by German gas, in Europe-and this week her little boy was drowned. Do you think that poor, weeping mother noticed that the rain was coming down in torrents,
for the offender, and all the reasons you can see why you should have been festers with consideration. The sore you have succeeded in making yourself miserable. Why do you treat the infected spot yourself? Why don't you complain to the Lord," instead of said. He may not encourage you in your unhealthy occupation of brooding
morbidly say to you, as He said to me: "Lool at the wonderful courage and endurance others are showing!'" Then you, also, tence, asking Him to forget that you had made a fuss over a trifing pain. Someone has mentioned pain
little things which are hard to do,
"The person who can go without her dinner and not advertise the fact who can laugh at little troubles, who makes light of a heavy weight, and can wear a shoe that pinches without any one being the wiser, who does not magng of wood nor the finger into brother's eye into a the mote in his brotter words without letting who swallows them; who can give up his own taste without giving up the ghost; such a one surely carries a passport into the good graces of mankind."
Talking about our pin-pricks certainly doesn't make them easier to bear, and our friends are apt to consider us 2 nuisance when we are always looking or sympathy.
A clever young lawyer was dying by
inches. He faced the future inches. He faced the future bravely, though it was hard for him to sit with olded hands while others were "doing pressed in this way: "I guess about pressed in this way: I guess about be as pleasant as I can." So he also did his bit to uplift the world. If we are going to be as pleasant as we can we must never coddle our pinpricks. Even to do this in silence and secrecy is to be a loser in life's battle. We hear a great deal about the splendid courage and patience of the wounded oldiers, but there must be a few who grumble and complain. Aren't you glad their complaints or record their groans? We are always ashamed when we have ailed to bear pain well; let us try to orget it as quickly as possible when other invalids are cranky and impatient. Patience is a very difficult virtue to acquire, and it is very dear to our "Lord. We often hear those who are "shut in" say: "I wish I could only, do something, but I am helpless." Do you remember our Lord's message "I the churches? To Ephesus He said: "I know thy patience. . $\dot{\text { patence. and hast }}$ phow Philadelphia $\dot{H}$ e said: "Thou hast kept the word of My patience." only too well that He has little reason to say it of me. But our chance is not yet over. We have still the right and the opportunity of bringing our troubles to the Lord. If they are really great troubles He will give us strength to endure them bravely, and if they are only pin-pricks (though at present He will hold them up important to us) in true proportion, and shall be ashamed to complain.
There is one thing we should fight against with all our might, and that is the bad habit of complaining about our troubles. It may seem to be only a trifling sin, and yet when the Israelites complained over the very real hardships of their wilderness journey, "it
displeased the LORD: and the LORD displeased the LORD: and the LORD
heard it; and His anger was kindled." He has not changed, and He still hears all murmurs and complaints which His people so easily engage in.

Don't complain about the weather,
For easier 'tis, you'll find,
To make your mind to weather
Than weather to your mind.
Don't complain about the sermons,
And show your lack of wit;
For, like a boot, the sermon hurts
The closer it doth fit.
Dora Farncomb.
The following lines were written by A Prayer
Oh! Father dear, draw near to me and
The humble prayer of this Thy little Help nee to feel that Thou art always

And make me honest, truthful, good and mild.

Lord, in the early morning of my life I (Oh! hear my prayer) to have my Would'st clasp my hand in Thine and When life is dark, and write my name
in Heaven

And when the sun shines bright, no
cloud is in the sky

When life is one glad song from mornThen help me still to feel that Thou art And keep the image of Thy Heavenly face in sight.
Teach me to feel another's bitter woe see in those whose he
see in those whose hearts are wrung To give a friendly hand and try my he sun has alwa ever dark the shone again, how-

And when at last my earthly toils are By my declining strength that earth Then may I gently sink to rest as does the setting sun,
And be at peace with Thee at last, forevermore. Wild Rose.

Dear Miss Farncomb.-Last Christmas time, 1 gave each of my pupils at school ritten new copper with the word Save vere to put it in some box or dish and with it place from time to time any money which they received. At the to me one tenth of were to bring back I said we would send this tenth to and poor children in the city. I am enclosing $\$ 1.50$ and am asking you to do the great favor of using this small offering in some way to help an unfortunate child and bring her or him some little joy as a gift from my children.
D. M.

The above letter speaks for itself. Those children are early learning the joy which comes from laying up treasure pleasure out of the money than the child who receives the gift. With thanks.

Hore.

## Fashions Dept.

## How to Order Patterns.

Order by number, giving age or measurement as required, and allowing at least ten days to receive pattern. Also state in which issue pattern ap-
peared. Price fifteen cents PER PATTERN. If two numbers appear for the one suit, one for coat, the other for skirt, thirty cents must be sent. Address Fashion Department, "The Farmer's Advocate and Home Magazine," London, Ont. Be sure to sign your name when ordering patterns. Many forget to do this
When ordering, please use this form:Send the following pattern to:
Name...
Post Office
County
Province
Number of Pattern
Age (if child or misses' pattern).
Measurement-Waist.............Bust
Date of issue in which pattern appeared.




## TheBeaverCircle

The Round Robin.
by e. barnes in st. nicholas.
e, Robin of the Maple Tree, and And Robin of the Hill, Buin Robin by the Mill,
And Robin of the Berry Patch and Robin of the Berry
Robin up the Lane,
And Robin in the Lilac Top, and Robin in the Grain,
And Robin underneath the Eaves, and by the Chimney Stack,
And Robin at the Barnyard Gate, and And Robin of the Cowshed, and Robin of the Pen, Corn-field and Robin And Robin of the Corn-field, and Robin And of the Brook, the Lawn, the Hedge, the Silver Birch, and Green, The Cedar Grove, the Ridge, the Slope, the Grape-vine, and Ravi

Do, one and all, without dissent, Make protest once again,
Against the slayers of the babes Wre trying hard to match and main, As careful parents should, and raise In all the good old-fashioned 察 ways, Of any decent brood;
To teach them to consume the pests, The flies and grubs and bugs, The beetles, borers, and the mites, The vicious worms and slugs.

We only ask you half a chance, As tegether and apart,
As tender husbands and as wives, We make petition for our rights;
If fields and gardens, fruit and trees Were spoiled by things that crawl.

## Little Bits of Fun

It was the first time that the polite little was the first time that the polite papa had carefully instructed her as to how she should behave.

8915 Two-Piece Skirt
with Yoke for Misses
and Small Women,


## THE FARMER'S ADVOCATE.

in oils, and I am going to take lessons in charcoal also. My teacher's name
is Mr. Thurlow. I have taken first is Mr. Thurlow. Thave taken hirst
prize for the last three years at prize for the last three years at our
townhtip fair, also I got seond prize township fair, also I got second prize
at the adjoining township fair for two at the
years.
Some Some day I hope to be good enough
to give lessons. At least that is my to give lessons. At least that is my
ambition. Well Puck, I guess this is all for this time, hoping to see this in


Lowering a British Hydroplane from a Battloship in Salonika Harbor,
print, and wishing the Beavers every $\begin{aligned} & \text { are going to get an attendance prize, } \\ & \text { I hope the } w \text {. p. b. is full so as it wont }\end{aligned}$ success. I remain; $\underset{\text { Lorence }}{ }$ Gosnell. R. R. No. 1, Highgate, Ont.

Dear Puck and Beavers.-This is my first letter to your charming circle.
My father has never been without "The My father has never been without "The
Farmer's Advocate since he was a boy, Farmer's Advocate since he was a boy,
and we like it fine, as soon as it comes every week I want to read the Beaver's letters, and I thought I would enter
the new competition. What I want to do pole" said Eva, after she had caugh chree or four ish. "m shoes and stocking and wade
ofn the shallow water in the hadalow water. Eva had time playing in the water, but once she slipped on the slipery sand and splash she "went
into the water, head foremost. "Oh!" into the water, head ooremost. "Oh!"
exclaimed Mrs. Harwood as she reached and caught hold of Eva's dress and and caught hotd of Evis dress and girl knew not what to do or say ais she stood on the bank with everybody around
her. "Guess Ill take you up to the her. "Guess Illl take you up to the
house," said Aunt Mary to Eva, "And don't one of you folks bother your heads about us, but just go on with your sport." So saying Eva and Aunt Mary went to "Let's see who's caught the most
fish," said Bertie, "I've only got two." "I've got five," said Billy. And that's twelve," said Billie counting them on his fingers as he was very slow at figures. "And father and Uncle The fishers went up to the house and found Aunt Mary and Eva getting supper ready. "Surely it's not supper
time!" said Mrs. Harwood. ". But what time! said Mrs. Harwoord." an enjoyable time we ve had
nithe children ate a hearty supper
and Aunt Mary heard Bertie whisper and Aunt Mary heard Bertie whisper
to Mary, "wwhat a lovely story well to Mary, "what a lovely story we'll
have to tell the city children when we go home." Any C. Prince, age 14.
R. R. No. 1, Petrolea, Ont.

## Competition I

What II Want to Do.
Dear Puck and Beavers.-As the subject for the new competition is,
"What I want to do when I grow up and why." I thought I would try my luck. When I grow up I want to be an artist, and the reasons for it, are that I have a talent for drawing, especian now, and am at my fifth picture. I am painting


Three Little Soldiers.
Sons of Mr. J. F. Costello, Branchton, On
when I grow up and Twhy. When grow up, I "ant to be"a stenographer
and if If in in this, I am going to stay at home on the farm, as I am a farmer's
only child. My heart's desire is to have a pony, and on the farm is the place to be a pony, and on the farm is the place to be,
where you can grow the feed. I like living in the country best, because 1 can keep pets. My pets are two kittens,
(their names are Jack and Jill,) ore
white rabbit and some Belgian hares. We have 11 horses, two of them are When the colt was 4 months old it weighed six hundred pounds. My father has
all the work to do himself, our hired all the work to do himself, our hired
man left last fall on account of the war. me is engaged in making shells. go to school every day. Our teacher's go to schiss McDonald. We like her
name is Mise
fine. At the end of the next year we cross and bore the pain of the cruel
thorns which He wore, and nails which vere driven through His hands and feat less them and so they arms and to ome with Him. To might have He is the heavenly Father. heathen Then I would gather little bands of heathen boys and girls, and learn them I would teach them of God's love and pick out the Bible stories to tell them I would get them to memorize verses and sing the chiddren's would offer prizes $t$ he reciter or the one who knew thei lessons best. I would teach their parents oo despise idols also, and to worship wish, which I hope may be carried out someday

Truly Yours,
Lilian $R$
Rich, Ont

Dear Puck and Beavers.-This is $m$ first letter to the Circle I enjoy so well Advocate. John Clarence âñ I wear pur soldier suits to school every day I am in the second book. Our teacher name is Mr. Twiss; we like him fine We made a hole in a tree for a wren
one for a blue bird, a big one for a high one for a blue bird, a big one for a hig
holder. They come every year. W have an oriole, a peewee, a kingbird canaries, bobolinks, kildeer, robins, and many swallows, that sing for us, but w and feed them to the cat, for we cut her toe-nails off every spring so she can't climb trees, and catch young birds of other kinds. The birds are very tame
They seem to know we help them. When we go to town the soldiers talk to us We had our flag at half mast for Lord Itchener.
years old.
Wilfrid
Son of
J. T. Costello,
T.
R. 2, Branchton, Ontario.

## The Ingle Nook.

(Rules for correspondence in this and other
Departments:
(1)
Kindly peper olly. (2) Always send mame and and adress
with communications. If pen name is also given, with communications. If pen name is also given,
the real name will not be pubtithed. (3) When
enclosing a letter to be forwarded to anyone, enclosing a letter to be forwarded to anyone,
place it in stamped envelope ready to be ent on.
(4) Allow ane month in this department for answers to questions to app

Dear Ingle Nook Friends. -1 am in matter of fact everyone who sits in an editorial chair, except, possibly, a news editor, is sometimes in a buandary. The trouble is, not the writing of things, but the knowing what to write about-just what will interest that far-off, shadowy, yet words when "the paper" goes out on its various journey.
Perhaps, this morning, a chat, just as though you all dropped into the den with your kni
Of course we're going to talk about these days without talking abond only because the city is swarming with soldiers, but because the chief topic of interest to the women workers 0th) hast ween whe University Hospital ready for the field. All the doctors belonging to the unit have been here, hurried in from various arsers Ontario, and all the women working night and day many in St Andrews Hall (the hall of the church mhich "Marian Keith's" husband Cross rooms of the the various Red Daughters of the Empire rooms, and many more in the homes-all busy as bees, making sheets, pillow cases, of bandages and dressings for wounds of all shapes and sizes. For the time knitting has been in abeyance, and for the new hospital as Canadian Stationary Hospital Number Ten, and will be under the efficient management of Dr. Edwin Seaborn,
one of the best known surgeons in Western Ontario

Living on Less. The other day a woman who has entertained and been entertained agreat suillinp fifying our way of fiving: we are people thought they had to to be very much dressed up to go to a tea; now they go, orten, in a plain shintwaist and skirt. Refreshments are simple and a very lew iowers take the pace or
Of course it was a city woman who was speaking, yet example radiates, to some extent, from the cities to the
country; even the country mayy have country; even the country may have
arrived at a halt in a movement, unmistakable in some districts, towards a luxuriousness in living that was becoming a dominant factor in city life. In short, to quote a writer dealing with the same
topic in England, we have come appreciably towards the end of "humbug." Simpler clothes, fewer amusements, but, perhaps, more real living are the
hall-mark of the new order. We entertain less, but when we do we take care that we surround ourselves with real friends. We save in many ways, but
yet not selfishly since our saving is but yet not selfishly since our saving is but
that we may give more to alleviate suffering. The spare hours of many of us are given over towards doing
actual work for the Red Cross. And actual work for the Red Cross. And
yet, it may be that the lessons learned in economy may be well carried over into the time of peace. Real friends, home-like entertainment, books and
gardens mean more, after all than the gardens mean more, after all than the
strain of fashionable, or still worse, strain of fashionable, or
Almost any woman with a "head'
should be able to think out plans for real economy, and yet, strange to say there are a fow end. One makes a start the instance, by cutting down her allow-
ance for church and charities, a method sure to be rather hard on some-
body. Another scrimps on the food supply-sells all the eggs, cooks very scrappy allowances of meat, and never
dreams of making up the deficiency in proteid foods in other ways. This last is very poor economy. People must
be well fed if they are to work well.
They must have a nutritious and varied They must have a nutritious and varied
diet. True, rich pastry, cake and pudding, diet. True, rich pastry, cake and pudding,
may very well be left out, in this wartime or any other time, but there must
be a sufficiency of meat and potatoes, eggs and milk, porridge, bread and butter, fruit and vegetables of as many
kinds as possible. If meat is reduced kinds as possible. If meat is reduced
to a minimum, eggs, cheese, beans and to a minimum, eggs, cheese, beans and upon to make up the proteid elements
needed for the human body the scientific needed for the human body; the scientific
cook will see to it, also, that vegetable cook will see to it, also, that vegetable
oils supply the needed amount of fat. In some places where fuel is an ex-
pensive item, the fireless cooker may be called upon to help. The "bought" ones are, of course, the best, but the
home-made ones are not to be despised. Indeed in Germany, we are told, "ali, -the war cook-books tell the 'Hausfrau'
how to make them". The kind described in these war-books is not the bag arrangement made of cotton or flannel lined with twelve layers of paper
The saucepan with its contents, boiled The saucepan with its contents, boiled
from 5 to 20 minutes, as necessary, is slipped into the bag, a closely padded
cover put over, and the whole carefully wrapped and left where the wind or cold air will not strike. Porridge, stews,
anything that is the better for slow cooking, may be left over-night in these
cookers and merely re-heated for using. Meat is to-day almost a luxury.
Porterhouse steaks, sirloin roasts, and Porterhouse steaks, sirloin roasts, and
choice chops all cost; one has to pay for
flavor. But all of the cheaper parts are quite as nourishing, and may be
made into delicious stews, croquettes made into delicious stews, croquettes slowly if they are to be really delicious; and the most of them are the better for
the addition of chopped vegetables. the addition of chopped vegetables.
Serve with dumplings, or on a hot platter surrounded by buttered hot biscuits or
mashed potato. A sprig or two of parsley will add to the attractiveness. economy, on the farm is a good one's living may be gained from it, to say nothing of its value to the general
health of the family. Nor need the health of the family. Nor need the
garden be a very large one; it is wonderful
piot provided the ground is rich and
mellow. There are many possibilities for ec
nomy in clothing. The really thrift housewife wastes nothing. She does not need to be told about making down clothes for children, converting old
shirtwaists into corset-covers skirts into inderskirts, turning dresses inside out and using dye for faded materials. Not everyone knows, however, that in most cities in which people
chop there are places where rubber may be re-heeled and umbrellas mended These are sometimes important items
for wet weather works havoc on shoes or wet weather works havoc on shoes
and clothes. When rubbers cannot be worn, shoes should be well protected from the wet by a patent waterproof mixture or by rubbing them well with melted preserve which tends to solten as well as preserve the leather.
Economy in all of not mean unhappiness; there is even a sort of satisfaction in it, provided one bravely admits the necessity. It is the
strain of "keeping strain of keeping up appearances" ${ }^{\text {" }}$
that kills. If people could only learn to be honest-absolutely honest-in this
as in everything else! as in everything else!
There is one
savi There is one saving, however, an but cramp the soul and bring bareness into life; that is the savingness that bars out papers, magazines and books
from the home. To be happy peoole from the home. To be happy people
must be interested. To grow in mentality they must have mental food, and mentality means alertness, forcefulness,
personality We ,
Western personality. We Westerners are too
much given to looking only to the material We forget that, after all, "the mind is the man". When we fully realize this
we take care that, whatever betide, we we take care that, whate
do not starve our minds.

## The Dollar Chain

A fund maintained by readers of "The Farmer's Advocate and Home MagaSoldiers' Comforts; (3) Belgian Relief; Contributions from June 30 to July 7 : "M. and C.i." Durham Co., Ont., \$2; "Toronto," \$2; Christina Sewing Circle, \$10; "Prospect Farm," New Hamburg, Ont., \$36.
Amount previously acknowl-
edged............................... $\$ 2,573.70$
Total to July 7............................. $\$ 2,625.70$ The following letter from "Prospect Farm, "部 published with great pleaspect
"Prospect Farm," New Hamburg, Ont. July 5, 1916. Dear Sirs: Enclosed you will find an order for 36 for the Dollaren Chain, this being a donation from Prospect Farm. ${ }^{\text {Miss }}$
M. E. Baird, $\$ 5 ;$ R. Baird, $\$ 5 ;$ Mrs.
R. Baird, $\$ 5 ; \mathrm{A} . \mathrm{H}$. Baird, $\$ 5 ;$ Mrs. R. Baird, $\$ 5 ;$ A. H. Baird, $\$ 5 ;$ Mrs. \$2; Fred Mitchell, \$2; Arthur Mitchell, \$2; Little John and Oliver Baird, $\$ 1$; Little Margaret, Jean, Tom and Faith All the little folks are under sit years of age, and all that are able to to talk wanted to ses
the poor soldiers.

Yours truly,
R. and A. H. Baird.

## Current Events.

The Russians and Japanese have

A new Dominion Arsenal is to be established at Lindsay, Ont

The Entente Allies have raised the against Greece.

Mr. Edwin Montagu succeeds Mr

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the world, died in New York. Her

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daughter is married to a brother of Miss Wilks, of Galt, Ont

EIt is understood that the British Cabinet has practically adopted Mr. Lloyd George's proposals for settleme of the Irish Home Rule question.
*Mr. Lloyd George succeeds Kitchener asj Minister of War. Sir Edward Grey, Secretary of Foreign Affairs, has been raised to the Peerage, and the Earl of Secretary for War

* The first submarine merchantman t cross the Atlantic-the German undercross the Atlantic-the German under Baltimore on July 9th. She was laden with 750 tons of drugs and dyestuffs, and carried two small guns, but no torpedotubes.

FAt time of going to press the great advance of the Alies continues satis fighting has been taking place terrin everywhere, the worst of it, in the British section, occurring about La Boiselle Canadians have been again acquitting themselves with credit, and have been in the thick of the conflict nea. Loos.

In the lobby of a hotel the other night conversation turned to the servan problem when a noted Justice recalled little incident along that line
Wishing domestic some time since a popular matron in a western town inserted an advertisement in an afternoon paper and an hour later a likely
looking candidate knocked on the back noon
looking
door.
"I
"I presume," said the matron among many other things at the interview with all kinds of housework are familiar you are a good cook." "Oh, yes, ma'am,'
response of the candidate "I 1 prompt ways been considered a very good cook ma'am."
"Then there is another very important that, reflected the matron. "I trust are not wasteful." to your cooking you "Oh, no, ma'am," was the rather startling assurance of the candidate. "I'd eat till I busted afore I'd let any-
thing go to waste."

## OurSerialStory

## The Road of Living Men.

## BY WILL LEVINGTON COMFORT. at the Doown," Among Men,". "Fate Fliece,"."Routledgect Rides Alone," "Midstream," "Child

 and Country," etc.Serial Rights Reserved.
It was clear to me by this time why Romany iuferedinser to be strung out, when he might have kept a compact
force around his river property indefinitely. Only a ship-load of rifies and ammunition would make him take such a chance. Perhaps he was running close on these essentials-and yet, it didn't seem to me that he would invest a million in mining machinery, and provide only enough gun-metal to fight few skirmishes.
The whole thing was excessively vague, as geographical and strategical matters may be, to one hardly straight on the cardinal points of a locality, have been regarded as a complication have first. A dusty forlorn peon had asked my name at the desk, and when assured that I was "Senor Ry-so" produced brown paper bearing the following words printed out with in credible effort:
Get a couple of mules and follow this man. It's all right.

## P. S. Bring your duffle.

Now I knew Huntoon could write Why, therefore, the printing? Then it occurred to me that in certain exigencies a man can sit a horse when he cannot shave himself; also that he can print
letters in angles when it's out of the question to make the chirographical curves. I was very sorry and prepared to follow the peon, whom 1 left below to be washed and fed. - I couldn't be sure, but it looked as if my baggage had been overhauled somewhat since had been taken. I mondered if I were so badly on Yarbin's nerves as to force him to examine my effects to find, if possible, a clue to my real purpose in Libertad. . The peon had assured me that the journey to Huntoon would require three hours. "Bring your duffle meant the purchase of saddlebags and the storing of the large part
of my baggage. The suspicion that Huntoon had a way to reach the valley muntoon had a way to reach the valley, packing when Yarbin tapped at my door I told him I had heard from my friend, and was off to join him. "I heard this morning,". Yarbin reported, that a man might journey and then sail down to the mouth of the Calderon where Romany's outposts are." "But Orion's outposts are there "I thought of that, but they sa Romany holds a sort of put they say I'd look into it further, but one can't take chances with a woman along-" "If I make it, I may be able to help you," said I, looking up at him from
my knees. I was straining at the buck of the saddle-bags. He stood there uneasily, regarding me with a queer mo sure about his being yellow wasn' significant.
"Narbin," I said, straightening up a commercial hook on where. Nobody has that means, anything, to you-all right. it doesn't -there's no harm done "I'm obliged to you," he said. Libertad lay brazen in morning sunpart from this irritating expectancy, my idea of a day's work was to determine Libertad was frankly awaiting the issue of a battle that would decide the fate of the gold-venture and possibly the life
of Nicholas Romany. I did not like the thought of remaining outside like this contingency. I ascertained in the forenoon that Romany himself divided his time between his river property and it was said, cut off the valley from Libertad The main force of Orion was stationed at the mouth of the river, on the north
side, while Romany held the headland

[^1]
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Mention this Paper
a fact that reminded me of the wa Once-ward, that Yarbin had suggested Romany upros in my consciousness. Always whe the rush of externals kept her apart for a time, her advent was just so much sharper. Through the entire journey from Covent to this hour, I had only borders of illusion leaf seemed Mary Romany's hand of a in the distance; or a sense of the dea remembered figure around the next turn of the trail, as now, was a sweet excite ment which turned to pain when disma actualities were restored.
Between three and four, we reached of fishermen-blown. It was a place men, the shine ofn and faded brown men, the shine of black long since gone and salt; men used to looking into the wind's eye. . . And there, just as far west as the Continent would permit stood Huntoon upon the rocky shore He let me come up to him (a broadhatted and high-booted Huntoon in hlue shirt and English riding-breeches with doe-skin reinforcements), the mighty saw the pouter breast a back-ground. I the throat ruffled with scars-inews, and throbbing throat just now-a red the cool blue eyes swam in inflammations. Auntoon had drilled himself not to be effusive. I had given over my mule to the peon at a discreet distance, and had stalked my friend. accepting going down coast," he said, accepting my hand casually., "B'long to geodetic,, survey-an' we're going
These remarks were torn out, like strips of paper, his teeth being closed not smile the main document. I did what geod, and refrained from asking figuration occurred. One peculiar transdown upon his . One eyelid looped blue eye, and remained covering the head cocked to one side to impress the finished strategy required for conductng survey business. Since the dumb Pacific business, and fisherman afar about thei the consummate delican out of hearing ceedings afoot, moved me. Moreover all this had consumed energy. Huntoon drew a black bottle as large as a rolling-
pin from his hip-pocket.
"Plenty hee slug," he suggested. I drank with or chaser. was like the jolt of an explesh. It rum. A little in a saucer would opaline faces at you. My friend now drew me still more remotely apart, arm about my shoulder, and confided bashfully that we were about to go down the coast on geodetic business. He then anquired with hinting fondness if I would fumed in the slug. Literally the man umed in the brisk air and vivid sunlight if he had a boa
"Tha's a'right.
Huntoon further intimated circuitously that since the fishermen went to bed early, it would be child's play to appropriate the yawl desired. Having plenty of survey expense money, I the bread from the well not to take the bread from the mouths of the fishermen's children, whereupon Huntoon sat a boat and stores, left him to procure before sunset. Huntoon was abroad on the buffet stock. presently him to the yawl as a final package, and the sun went down. A continual astonishment to me was the different entity that was Huntoon, fallen. As we set sail in the dusk, the vastness of the sea and the world in general, appeared than ever before. I could not venture had it not been for into this words of the morning about reaching Romany's outposts. It is true, however, that Huntoon seemed to have the matter of getting past Orion on on was to the mining outfit, and his mirth was unprecedented. That was what he A peculiar night. and beculiar night. The sea was calm The forests of South America were a black ribbon on the left, and the mountains were contours of denser night. Huntoon snored in a changeable way that broke monotony. I left him

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I had kept the yawl a mile or so off the beach, to meet a "Hell," he said, "that must be Romany's headland. We go in the canyon helped hi
He
He helped himself to further stimulant, and added with a ghastly smile: "You at "the wheel?" get to take my trick "No, I didn't call you. I could hear that you needed rest, You weren't
a bit monotonous. You'd a bit monotonous. You'd wind up
and then run down, and ever, little and then run down, and ever $j_{\text {little }}$ lite
while break a spring. It ${ }^{\text {couldn't }}$ have been the main-spring-" couldn't to show you any documents from past, Ryerson?" he asked with apprehension.
"Yes,"
it was rather deen for mory enough, "but ever been a Dervish?"
"He looked at me sadly.
"Or a Dragoman?", I asked,
" No , they, wouldn't let me in."
I said, "but nearly everything else-"'
he mumbled.
your past in some me that 1 could get
best by a process of elimination." ". -did I?"" he asked. "Not in the least-
"I'm glad of that. D
"Not in the night-
"That was fine of me. I suppose "No, Huntoon. I had to hypothe-
"Are you an old hand at hyp-? I'll
have to have a notch more steam
that-", have a notch more steam on
crept off shore a bit to keep away from the mosquitoes. It was so very still
and fine-I had time to put two and two together-"
I say I had soldiered in?" "Canadian stance?
You see, I'm not naturally a lia I never served with those Johnnies."
I didn't open the main trend to get him the main trend, meaning to get him straightened out first.
An hour afterward we could see the An hour atterward we could see the
mouth of the Calderon canyon, low on mouth of the Calderon canyon, low on
the left where Orion's soldiers lay, and the lofty naked promontory like a great arrow-head, which the miners were said to hold.
"They both see us," said Huntoon
softly. "Why not make the point of Huntoon steered for the centre of the canyon. "It. would look like a frame-up, to the miners, Funtoon replied. Orion' got boats and is supposed to stop that
sort of thing in little cratt We've got to get properly fired at by
the party on the left, and make the landing inside where climbing is easy.' sea business. Ten minutes afterward. sea business. Ten minutes afterward,
with his back to the headland performed close to his chest a swift bit of wigwagging with a red square of cloth. Firing at us began from
Orion's concealed position. Our yawl Orion's concealed position. Our yawl
was crowded over toward the miners' side. In a few moments, to all intents,
the native riflemen went back "You do the talking," said Hunteon.
as the yawl was made fast. We were in still water among the rocks at the foot
of the steep slopes, just behind the of the steep slopes, just behind the
barb of the massive arrow-head. To be continued.

For Tobacco Growers.

## of tobacco-root rot and other tobacce

 diseases the Tobacco Division has equipped a pathological laboratory forthe identification and study of tobaco Any growers whose crops are affected
with disease should mens or write to the Tobacco DivisionCentral Experimental Farco Division, Otawa. has. Reen outt, of the Tobacco in chargision
and would te in thats work and would be glad to exthis work,
diseased plants and any diseased plants and offer examine any
for treatment; or, if neceessery toestions

Questions and Answers.
 plaindy Wuritten, on one side co tearly stated and pand muvt ben, on one onide of the paper only,
acdidrese of the writer.anied by the full name and cerd-In veterinary, questions, the symptoms
 uren- veen ar reply by mail sivend reuired to
be enclosed. Miscellaneous.

Growing Mushrooms Outdoors indly advise how mushrooms may be grown in the open air or outdoors. structions.
Ans.-Do not start to grow mushrooms too quickly or too extensively at first. alone are little details that experienc netret and demonstrat information comniled mushroom culture. The crop outdore a steady temperature and is usually in the iscue caves or cellars. The articl how they may be grown 1916, explain and will indicate the important points in mushroom culture. The bed in should not be filled be tried outdoors manure as the temprature much would go too high. They would how ever, require considerable organic matter, for in that material the plant thrives best. They would also require We would adviscept in rainy weather. to go easy at first for correspondent mushroom growing experience failures.

## Veterinary:

Poll Evil-Pigs with Swollen Joints. 1. Horse has had poll-evil since him and the wound has been discharging
2. Some of my little pigs seem to have swelling of the joints. I have and giving them salts and sulphur better. Ans.-1. Some cases of poll are very hard to cure. Treat evil is slow. We could not expect a cure in a bad case in a few months. It may third ma second operation, or even a it is necessary large ligament (called a portion of the nuchea) that runs on the upper border of the neck from the withers to the head No doubt your veterinarian is doing ali will he can for him. Local treatment allows escape of all puess the operation 2. This is daubtus forme
nature. Continue with the Epsoumatic and sulphur, and bathe the joints 3 times daily with hot water and after bathing, rub well with hot camphorated for them and allow sreeping quarters during the day.

## Suits Free.

Remarkable Cloth that Won't Wear Out! Now readers, would you like a suit or astounding pants absolutely free! A most known English firm! They have disYou can't tear it! Yet it iteproof Cloth. same as $\$ 20$ suiting. You can't wear the out no matter how hard you wear it for if during six months of solid, hard grinding work every day of the week (not just Sundays), you wear the smallest hole, another garment will be
given free! The firm will send a written guarantee in every parcel. Think read ers just $\$ 6.50$ for a man's suit, and only $\$ 2.25$ for a pair of pants sent to you ail charges and postage paid and guaranteed Now, don't think solid, grinding wear away you cannot test these re miles cloths, for you simply send a 2 -cent Theobalds Read Hoproof Clothing Co., 56 for large range of patterns, easy self, for large range of patterns, easy selfabsolutely free, and post paid. Send
2-cent post card at once! Mention
"The Advocate."-Advt.

Julx 13, 1916
Some English County Shows.
Editor "The Farmer's Advocate":
"Business as usual" is essential in regard to agriculture, and it was with this fact in mind that the Council of the Herefordshire and Worcestershire Agricultural Show decided, in the first at Hereford this year. The Minister of Munitions (Mr. Lloyd George) could not consent to the usual exhibition of
implements, etc., always an important feature of the show, and when it was the show yard had risen to an exorbitant price, to say nothing of labor, the event Although the entries of Hereford cattle were not so numerous as could
have been desired there were excellent exhibits. In the first class for Castle, won and his bull (Sailor) showed very nice character, also the calf, and a first prize was awarded. The young bull
class was an exceptionally good one and the winner was George Butters' Newton Realm, which has the prospect
of becoming a good stock bull. He possesses all the striking characteristics
of the Sailor Prince breed. Bulls calved on or after March 1st, 1915, were a useful class, and winner was Bodenham Fore W. Milnes, of Church Stretton, out of the dam Blossom Second, which has produced two Royal winners. He is a
bull of plenty of size and weight. Sir
John Cotterell's Dictator was send John Cotterell's Dictator was second,
being not so well developed at the tail, though otherwise a striking represent J. H. Bray, Dormington, was premier by her in the class for bulls calved in 1915 . W. Milnes' Jimcrack, gained first prize
in the class for 1914 bulls. By British. Oyster he has a beautiful head and plenty scale in the class for bulls calved previous to January 1st, 1914, the three and 22 cwt., respectively. The big. gest and best was George Butters' always took a high place, yearling and a two-year-old. T. Lawson Earl of Coventry's Dollar third. In Clive Lady 6th was winner. In heifers calved in 1913 premier honors were awarded Miss Gordon,
shown by the exors, of I L. Hall winn of the second and res . L. Hall, winne at the Royal last year. For the best the Earl of Coventry's rested between Sir J. R. G. Cotterell's Diadem, which were placed in the order given. Madrigal fine heifer calf. The champion prize for best Short-
horn bull went to E . Smith's Worcester Hayle Imperialist, an easy winner, and was awarded to W. M. Cazalet'serifers bridge Golden Gay 2nd. Cazalet carried heifer in milk calved frevious to 1914 was secured for best Shorthorn bull shown by Mrs. Jane Harvey Hewitt, C. W. Kellock's Jack Tar was winner He is a particularly handsome white luding two of Lord Derby's fifty-guinea Lechlade, Glos., carried off chief hond Son, in the classes for Shorthorn dairy In Ryeland sheep, the winning pen in the opinion of some, the best pen of Leicestershire Agricultural She years. the Groby enthusiast. J. H. Appleby, horse section. He was first in Shire local class for Fillies with Bradgate in the Open competition for Two-year-old Pearl; scored in the Three-year-old Mare flass with Bradgate Dorothy; was
or with Foal at Foot, and stood well
to the fore in the local class for Shire
Filly Foals.

THE FARMER'S ADVOCATE.

The Pedigree Shorthorn Dairy Cow
class was well led by Lord Lucas Planet, a beautiful dairy animal. Shorthorn Bulls were headed by F. B. Wilkin-
son's Proud Knight. Thres shire, Red Shorthorn classes filled fairly firsts and one second. winning all the The Large White Boar* class had a rare stylish sort at top in Bourne Bandbreeder E. Wherry. In the open class
for a Pen of Any Breed the Westminister was first with a typical One-day, too, was the Northamptondistrict prize for bulls went to a very ward Wake, Bart. He is al. Sir. Hereward Walee, Bart. He is a level, welleasy winner in the cow class was R.
L. Mond's Marian 4th, a big cow with fine udder, which also won the Senior milk, and has been in milk for $81 / 2$ months. Capt. A. S. Wills' Puddington Years, York was far and away the best exhibit. five weeks before. The Dairy ShortTwo was secured by R. W. Bulls Under Sons' winner at the Royal last year, Kelmscott Juggler 39th. He is very
correct, and beat Lord Lucas' Premier Gift, out of Primrose Gift.
$\qquad$ and he also carried off the Breeders; Association prize. features of the Nottinghamshire County show held in the Lace City. Forshaw
and Son:' Newark Coming King, the winning Shire colt in London, led his
class of Yearlings. This colt has come class of Yearlings. This colt has come
on well, and has beautiful feather, and is a good mover. In the Two-year-old
class, Messrs. Forshaw led with Brook Vale Foreman, a weighty, good horse, moving well and standing on the best ling Fillies was owned by A. R. Grimes, i. e., Gleadthrop Seclusion, a handsome,
promising daughter of Child wick Champi-
on. In the Two-year-olds I. H. Appleon. In the Two-year-olds, J. H. Apple-
by's Bradgate Pearl, a capital bay, with good shoulders and a typical bodypiece, led, closely followed by that
massive, weighty filly Elvaston Belle, submitted by Lord Harrington. For-
shaw and Sons were first in the shaw and Sons were first in the Three-
year-old class with Rufford May Qucen, a powerful filly, with great substance
and quality. Winner in the Brood Mare class was Halstead Royal Duchess, champion, and was exhibited in beautiful M. Hubbard, a grand bay, with beautiful feet and feather, was second, and she
took the Shire Horse Society's medal. The winning colt, Ash Childout of Egerton Orme's mare Pendley May Queen. at Notting classes for Shorthorns In Bull Calves Earl Manvers led with a choice, good-topped dark roan, Pierrepont
Field Marshal. Birdsall a roan of good stamp and character, a good son of Village Diamond was Grace, however, led in the Yearling Bull class with Wood Ranger, followed
by another from the same herd, Welbeck Choice. The Shorthorn Society's prize
and its reserve went to Earl Manvers for his dark roan, Pierrepont Field respectively. Proud Knight, a white, Two-year-olds for F. B. Wilkinson. A grand calf Pierrepont Clarissa, won for
Earl Manvers in the Heifer Calf class. In the open Bull Calf class Walter Spurr led with Earl of Kingston 2nd, calt, full of the best characteristics of
the and one quite likely to be their leader Brandsby Count 6th, owned by J. M. Strickland, a grand yearling, honors. His depth of flesh and fine beat. In old bulls, Jack Tar, owned by He is a bull of great weight, flesh and
 you hide or lock away "Maple Buds"" insmiths! - Why, no matter where to get them. This great. desire children and grown-ups have for these dainty solid that we deserve it, for no expense or time is spared to make them the believe
chocolate confection in the world - inest. chocolate confection in the world-It is-
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fertilizers, we have then no trouble in fertilizers, we him interested. We want every Ontario farmer to take a ton of Sydney Basic Slag and use it on his Fall Wheat this season. Drop us a line and our general Salesman will give you a call. He will put you into communication
by telephone with men like yourself who can give you their experience of Sydney Basic Slag.

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to drain the marshes, or irrigate the dry spots your farm
With C.X.L. Stumping Powder It makes ditching easy and
enables one man to do the work of ten. Ulow C.X.L.L.Stumping Powder to
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ALLOWAY LODGE STOGK FARM Angus, Southdowns, Collies Southdown Prize Rams ROBT. McEWEN, R.R.4,London,Ont Balmedie Aberdeen-Angus-Get a high-
 Aberdeen-Angus Cattle Several chwi,

$\left\lvert\, \begin{aligned} & \text { the females the judges had a great lot } \\ & \text { to sort out. }\end{aligned}\right.$ in the Calf class for Earl Manvers,
and she got reserve championship to and she got reserve championship
that grand two-year-old heifer of M. Cazalet, Golden Gay 2nd, that won first in her class, and is a heifer of
supreme merit, beautifully supreme merit, beautifully moulded and,
evenly fleshed. In the Yearlings-a eveny fleshed. In the Yearlings-a
strong lot-Lady Pye led, F. B. Wilkinstrong lot-Lady Pye led, F. B. Wilkin-
son, followed very closely indeed by
W. Spurr's W.' Spurr's Wexham Venus a mos
promising heifer. W. M. Cazalet was promising heifer. W. M. Cazalet was
first and second in the Cow class. Lad
R first and second in the Cow class. Leaded and of great merit led, and Cairncosh Jilt was second.
In the Large White Pig section a
beautiful boar, Bourneo 10th, won first beautiful boar, Bourneo 10th, won first
in Senior Male class and silver medal in Senior Male class and silver medal
as best boar for E. Wherry. The same exhibitor's handsome and typical sow Bouquet of Bourne also won the female
medal and first in her class medal and first in her class.
In Lincolnshire Curly-Coated pigs
the two female classes were really F. D. Grounds won in youngsters with March Bobtail 2nd. In sows, G. Freir
won with Deeping Pride 49 th, a particularly handsome, typical sow. G: Simpson led in the Boar class with Friar 7th. Show clears the way for the Royal and has attracted 515 horse entries;
803 head of cattle; 607 sheep; 92 goats 803 head of cattle; 607 sheep; 92 goats;
321 pigs; 1,519 poultry and 565 exhibits 321 pigs; 1,519 poultry and 565 exhibit
in the "produce" section.

## Gossip.

Geo. Amos \& Sons, proprietors of
Pleasant Valley Farms, Pleasant alley Farms, and breeders of
high-class Scotch Shcrthorns, Moffat,
Ont., in changing their advertisement Ont., in changing their advertisement
state that they are state that they are offering Sittyton
Favorite, a bull which was first as a
junior cif Favorite, a bu which was first as
junior calf at Toronto, the only time
shown and is a proven, good stock bull. A number of young bulls are coming on
and females of all ages bred to Imp. and females of all ages bred to Imp.
Loyal Scot and Sittyton Favorite. See the advertisement.

Don Jerseys.
The Don Jersey herd of D. Duncan
\& Son, Todmorden, R M Duncan Station, C. N. N. O. D., has the
Distinction of being the oldest estabdistinction of being the oldest estab-
lished herd in Canada, and for many hished herd in Canada, and for man
years the representatives of this herd were the outstanding feature of the
Jersey exhibit Jersey exhibit at the Toronto Show,
but in later years the but in later years the undivided attention
of the present owner, Gordon of the present owner, Gordon Duncan,
has been wholly centred on increased production and record making. This does
not mean that the show-yard quality of the herd is being sacrificed, for neve
in the herd's history was in the herd's history was the quality
higher, and this is particularly tue the younger cows and heifers, daughters of those two high-class and intensely
producing bred sires several years have been in serviceEminent Royal. Fern and Fontaine's their R. O. P. test, and many have qualified in previous years. Among
those recently those recently qualified are Gussie's
Sweet Vernal. In 1914 she gave 10,800 12,000 and this year will casily beat
Her has a short
Her Her yield has been from 45 to 52 lbs
per day per gay. Out of her is a March bull
calf got by Eminent Royal Fern.
is a coming herd Surely make good. Matinella of won
mature, will finish on the 25 wh mature, will finish on the 25th of August,
and is now within a few lbs. of 10,000
and is still giving 30 lbs. a day. But-
tercup of Doon, four-year-old, gave 9,000
lis. Nancy of Don started under three years of age and in 8 months
has given 7,500 lbs., average test 5 per
cent. Neva of lon ave 1,145 iss., in May mature in April, $1,175 \mathrm{~h}$ Ihs., with
test of 4.5 per cent alf hy the same sire. The herd is is
how 60 strong. Twenty of them in now 60 strong. Twenty of them in
hilk are producing 8 gallons of 30
orr cent. cream bays to keep the hest. Several young it


##  <br> Preserves Roads

## Bad Roads Cost More Than Good Ones!

That is a statement which thousands of taxpayers in scores of Canadian towns have found to be a grim reality. From force of habit they looked upon macadam roads as a great luxury that bore heavily upon the taxpayers' shoulders.

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many cases where many cases where the automobile came along and wore out the new
macadam roads almost as soon as they were built.
The real trouble is, however, that plain macadam was never intended rapidly under the abrasive thrust of automobile wheels.
It is consequently being abandoned by progressive Canadian engineers that is, macadam which has been bonded with Tarvia to make it automobile-proof.

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## Dual-Purpose Shorthorns

WELDWOOD FARM, The Farmer's Advocate, London, Ontario Robert Miller Still Pays the Freight - And he is offering in Shorthorns some of the bes Some younger still; heifers ready to breed and younger, and somed. Young bulls fit for servect
 and still it grows There is a reason. me what y
ROBERT MILLER, Stoufville, Ontario
Shorthorns and Shropshires T. L. Mercer, markdale, ontario


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20 . and 25 ft. lengths! Our price, 37c. per ft:
 Engineer's Bargains ' Also General Supplies
for Farmers Windsor Supply Co Glenfoyle Shorthorns Large selection in females all ages, bred
from the best dual-purpose families. One
ext extaa choice fifteen-months bull, some younger ones coming on. Pi iced well Stewart M. Graham, Lindsay, Ont. 1854-Maple Lodge Stock Farm-1916 quality and choice breeding Come MISS C. SMITH, Clandeboye, R. R. 1, Ont len mile west of Lucan Crosing-Telephone

 Shorthorns $\begin{gathered}\text { Bulls, females, reds, roans, } \\ \text { size, quality. Breeding milkers }\end{gathered}$
 easy. Write:

Questions and Answers
Miscellaneous.
Itchy Legs.
What can I do forgs.
chat hind legs?
tor mare that has
D. W. P. Ans.-This is quite a common trouble Purge with 8 to 10 drams aloes and 2
drams singer. Follow up with $11 / 20$ ors.
 sublimate, 30 grains to a o quar or woiter
Heat to about ion deerres F Heat to to about 100 degrees F . and rub
well into the skin of the affected parts
wice dail twice daily.

Closing A Road.

 spent, but it tas been open for over
thity years. The road around corner

 Would it be advisable to fonce around
corner without notice? shner without notice? Could the town-
ship make me leave it open when
 impassable, at some time of the year? Ans-We do not think that you ca matter is one to be arranged with the
township council.

Monsieur et Mademoiselle

 and poititeness, points which we Briton
are fiale to overlook in our serious
partiche
"Deux petits enfants Francaiss
Monsieur et Mademisalle Of what can they be talking, child?
Inded I 1 cannot tell. "But of this I am very certain, In that wweet French politenessI wish we had the same!
Monsieur has got a melon
And scoops it with his knife While Mademoisielle sits watching him
 They re chattering like two pies
French ma pies, understand me So merry and so wise.
Their floor is bare of carpet,
Their curtains are so thin; They dine off meagre pottage, and Put many an onion in!
Hert ant He blacks his shoos, he can; vet she's a little lady,
And he a gentleman

O busy, happy children!
Would it misht sonchetiearts of yours, Woudd it might somet et mes enter at
Our solemn English doors! Wourd solemn we whist woorst And t payede werked played ganly well,
And lived our lives assimply And lived our lives as simply
As Monsieur and Mademoisele! A. A. Colwill, breder of Tamworths
nd Shorthorns, R. R. 2 , Newcaste Ont, in changing his advertisement
offers his stock boar, Duke of Harold and two three year-old sows. He think
the trio would make good for exhibition purposes and would like to see them in
the ring, but owing to his extensive farmingo operations and the scarcity
help he has been forced relluty to give up showing this year. He is
also ffering an extra good sow 18 months old and another two years
old and several young sows. Wm contrt, of took forl sows and tevora, boars
crom this herd, for the western show circuit. Shorthorns offered are of the deep-milking kind, and as Mr. Colwill
hand milks them and ships cream to Toronto he knows just what each in
doing. They have been specills
 continued demand. See the advertise


Ontario Wind Engine \&Pump Co., Ltd. Get a Silo plike this on your farm 93 Atlantic A ve., TORONTO, Ltd. by planning now -make biggex
Escana Farm Shorthorns
 and young cows, several with calves at foot, all
especially suitable for foundation
Mail orders a specialty. Sationsfaction peses. MITCHELL BROS.

Burlington P.O., Ont.

 Females-SHORTHORNS-Females
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 Canada's Grand Champion Shorthorns of 1914-1915

4GLENGOW SHORTHORNS AND COTSWOLDS Pure Sotch in breeding, we have an exceptionally choice lot of bulls for this season'
Prade, ranging in ape from 8 to 15 months, big mellow fellows and bred in the purple.
Also ram and ewe lambs of first auality m . Smith \& Son, Columbus, Ont. Myrtle,C.P.R., Brooklin,G.T.R., Oshawa,C.N.F Four Imported Bulls
 Woodhome Shorthorns

 Map Moffat, Ont. $\quad$ Moffat. 11 miles east of Guelph, C.P.R. good young bull at a price which will make him well worth the money. Not many femayses for fatle, a
but can sing


## 3 Holstein Bulls

 R.M. Holtot, Port Perry, ont. Holstein Females for Sale

Questions and Answers.
Miscellaneoue

## Cribber.

Would a mare
the foal to crib?
Ans.-Cribbing S. G. H.
a possibility that the foal might imitate the mare.

Gasoline Tracto
Which gasoline tractor, the four or three wheel, would be the best fo plowing and all kinds of farm work, and furrow plow? Ans - Sow Ans.-Some recommend one kind, some another. It would be advisable to see on which would be most satisfactors under local conditions. A tractor giving eight-horse power at the drawbar should prove satisfactory.

## Line Fence.

Can A who owns a farm adjoining a Methodist parsonage be compelled (ordinary farm fost of the line fence perties? A contends that the church owning sa:d property has a right to pay property is in a different parsonag village and not adjoining the church Taxes are paid annually.
keep.-A may be compelled to make keep up and repair whatever the local to be his just proportion of the fence to be built as a boundary fence betwee the parsonage grounds and his farm.

## Lump on Colt

A bought a colt from $B$ five month ago. B said he was sound and all right days sees a small lump on his leg where spavin would start and he shows it to
B . The lame. Can A claim damages or make B give A so much back, and how should Ans.-It would depend largely 2 . agreement. If the colt was, to al and the seller did the day of sale it wilfully we doubt if the misrepresent collect any damages. If on the could hand the buyer could prove that the seller knew the colt was unsound and unsoundness to take advantage of him, then he would have ground for action,
Such cases are better settled between the parties concerned. Under the cir-
cumstances, we doubt whether A could collect any damages.

## Objectionable Use of Ditch.

A has a ditch from his adjoining farms. side, then across part of B's farm. It till it empties into a creek. The ditch and B's cattle drink from it all summer
and 1. Can A run his bath-room drain
into his barn ditch and let it run down 2. If any tuberculosis germs happened come down the ditch and B's
cattle got sick could he come upon
A for damages? 3. What steps if any could be taken 4. Will it damage the fish in the 5. If A uses chemicals will it sicke
cil do anything?

```
loing somion to legallv prevent A from
```

water from the ditch and by drinking
discase germs came from the sewage.
3. Indeavor to make a friendly
agreement between mat
the interested
4. It do not think so.
s. It depends on the kind of chemicals
sed. Certain kinds would certainly
becomes a public nuisance the counci
can call on the health inspector and it health he could compel A to cease using
the open ditrh for the disposal of sewage


35 lbs. butter a week. Cows that will give 100 lose mims a d day age 119 lbs. milk a day an we are trying
At present we have more of them than any other herd in Canada. We an supply foundation stock of this breeding. Verd in Canada. We
Vitors D. C. FLATT \& SON, R. R. 2, Hamilton, Ont

King Segis Pontiac Paul 15940
 ant mithatif Larkin Farms

Queenston,


## Danon. Mer

 SETRR SMITH

 Hospital for Insane, Hamilton Ont Kitchen, St. Georse, Ont.


## FAIRVIEW HOLSTEINS





Riverside Holsteins - Herf head by by King ofhana E. HULET, Norwich, Ont.

For Sale---Sons of King Segis Walker FAREWELL

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POULTRY FEEDS Writc for prices
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 | This hatest model hrend |
| :--- |
| Mixer propducesa beter |


 Lakeside Ayrshires few young bulls or sale from Record of Per
formance dams, imported and Canadian-bred,
sired by Auchenbrain Sea 35758 , Aurand champion at boam (imp.
and Sherbroke Wuebec
GEO. H. MONTGOMERY, Proprieto Dominion Express Bldge, Mo Proprietor
D. McArthur, Manager, Philipsburg, Oue. Oueb ALDERLEY EDGE AYRSHIRES Two yearling bulls sired by Lakeside Day Star
(Morton Mains Planet). Write for description. J. R. Kennedy Stockwood Ayrshires-Sired by my rovally-bred King of Hearts, Imp.. for sale are in calf heifers
and young bulls, out of imp. and big producing cows D. M. WATT, St. Louis P.O., Quebec High-
class
a-day Ayrshires $\begin{aligned} & \text { If you are wanting a richly- } \\ & \text { bred young bull out of a } 50-1 \mathrm{~b} \text {.- }\end{aligned}$ a-day and over cow, imp. or Call out of a $50-\mathrm{lb}$.
or sire, write me. Females D. A. MacFARLANE, Kelso, Ouebec

Questions and Answers.
Voterinary.

## Spinal Trouble-Haematuria.

 duli, stands a great deal is in thpy and and when a great deal in the field hind legs and goes a little sideways She showed similar symptoms twomonths ago. I gave her saltpetre and she got all right until a few days ago. she got all right until a few days ago.
2. Yearling heifer passes blood
wrine Ans.- 1 . This is a disease of the and sometimes does usually very slow Keep her as quiet as possible in a comfortable box stall. Purge her with $3 / 4$ of a
pint of raw linseed oil pint of raw linseed oil, and follow up
with 1 dram nux vomica 3 times daily Feed on easily digested, laxative food, as grass and bran.
of iron in $1 / 2$ pint ablespoonful of tincture twice daily until blood water, as a drenc

## Muscular Soreness.

Three-year-old draft colt was worked hard and highly fed on grain all spring. On June 21
on mhe was one of 4 horses
on the field all right, but when brought back to the yard she walked as if sore in
front. When the second ready she was so stiff she could hardly move. I sent for my veterinarian and he treated her. The stiffness disappeared, but the muscles of the shoulders swelled. The swelling has disappeared
but she is still stiff. I sent for my veterinarian and he took some blood rom her and left it in a pail. The fluid was on the top, with more solid substance beneath.
Ans.-The mare was too young to feeding hard, steady work and high condition Her muscles became sore. The sisting, as all drawn blood should, is, no doubt clot. Your veterinarian done for her doing all that can be long rest. It may should be given suffer from sweeny. It is a great will take to work three year alds so mis it generally shortens their life of useimmediate results.

## Miscellaneous.

## Orange Hawk Weed

What is the name of this weed picked in the pasture field, a field that has been
pasture for ten or more years? Ans,- J. S. M. weed or Devil's Paint-Brush. It is a rapidly in meadows and pastures
res and It roots close to the surface of the ground. On small patches where the
plow cannot be worked apply salt, plow cannot be worked apply salt,
18 to 20 lbs. per square rod. followed by surface cultivation will hill

> A Daughter's Belongings.

My daughter at the age of 18 won a wenty-two and has married a Protestant untold to us, she knowing how much it was against our will, as we have been She left her several generations back. he left her clothing and a number of presents which she received at different
times including a mink set of furs, which 1 gave her on her twenty-first birthday having been on my property since sht got it alinost 4 years ago?

If so, can I charge storage?
Can she charge me for use of it?
4. Can she take all clothing?
$\underset{\text { presents? }}{\text { Can }}$ she take furs and other
6. Is she of age?
7. If she can take belongings, has she to collect them herself or can she
send a substitute? Ontario
Ans. - 1
fiving her Yotice that Not without first so after a certain date (to be stated in the notice) unless she removes the Yes -all that is hers.
7

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 York shires and Shor horns. We arco ofer-


Questions and Answers. Mibocllaneous.

Absence of Oestrum I have two cows three and five years old, respectively, that calved during
the winter and have not come in season since. These cows are healthy and thriving and cleaned all right at calving Can you prescribe anything to bring
them in season as I would like to breed them again? E. R. Ans-We
Ans.-We would suggest feeding the cows a little grain if they are not already
getting grain. If getting grain getting grain. If getting grain, try
adding a little heavier meal or some
oil cake oil cake or special meal. Turn them out in a yard with the bull for a short time each day if possible.

Painting Silo-Fir
like to know building a silo and would ter method of painting the staves or, second, painting with after erected, or, second, painting with creosote in
side and outside? I have R. C. Fir staves.

Is the Fir of commerce the same as Douglas Fir? Enc UIRER. Ans.-1. Of the two the creosote method looks the better
that the only fir they handle is Dorms us Fir, so it is likely that it is the ordinary

> Horse Stocks.

I have a six-year-old gelding II have
been working and feeding well, and his been working and feeding well, and his
right hind leg has been stocking all spring. Can you advise me what to do to clean that out if possible without
having to reduce flesh too much?
Have Have not consulted a veterinarian. J. S. $\mathbf{H}$.
Ans.-Purge with 6 to 10 drams aloes
and 2 drams ginger. After the bowels and 2 drams ginger. After the bowels
have regained their normal condition give a dessert spoonful of saltpetre in
damp feed once daily for three or four days to act upon the kidneys. Feed
grass or green feed. Cut down the
allowance of grain, especially when he is idle. Avoid violent changes in feed
If stocking persists hand rub the legt requently and bandage moderately tight-
y with woollen bandages.
Lymphangitis.
We have a four-year-old mare that has swollen up in the left hind leg.
Her leg started to swell two or three
months ago, but it always came down with exercise until now. It goes down
some, but on the inside of her leg there
is a lump about as big is a lump about as big as helf an apple
and it does not go away. If she has been standing in the stable for some time,
she seems to get stiff on it and swings it out sideways when she walks. It is
broken out in a couple of places. Ans A. P. disease has the peculiarity of being
more frequently found in the left hind leg, although it is not uncommon in the
right hind leg Purge with aloes and 2 drams ginger. Followe up with two-dram or three-dram doses of nitrate of potash three times daily-
Bathe long and repeatedly with warm water. Apply camphorated with wanmu the grain ration. Keep comfortable. ness is well-marked. After lameness subsides exercise or work regularly,
Substitute bran in part for grain and be sure to cut down the grain ration

Trade Topic.


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Power is becoming an important factor on the farm and on the road, and this new department will convey the very information that rural people will need.

Breakages and adjustments take place constantly, and often can be overcome very easily. This department deals with this, and a lot of very useful information can be obtained from it.

## CANADA'S YOUNG FARMERS AND FUTURE LEADERS

This department has been inaugurated to meet the demands of an awakening spirit among the rural youth. They are ceasing to accept tradition as the guiding star in farm ife. They are beginning to realize that sooner or later the obligations of the old homestead will fall upon their shoulders. Others will institute a home of their own, and with their brothers on the home-farm will become citizens of the community and Canada. Boys of to-day will be the farmers, law-makers and leaders of to-morrow

The HOME DEPARTMENT fills a place in the home which no other paper can. Mother, and the smaller boys and girls each have their own favorite and special columns.

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