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VoL．XLIX．
LONDON，ONTARIO，MARCH $\mathbf{2 6}, 1914$.
No． 1122

## Frost Improved Lawn Fence Exactly as Represented．



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$\square$ ROST WOVEN LAWN FENCE is perfect in detail and in keeping with that high standard of good looks for which 1 we have Fences and Gates have such a ros a power driven，automatic machine，which produces a woven lawn fence much tighter，stiffer and better－looking．Horizontals are two No． 12 wires with three complete twists between each that is much tighter，stiffer and better－looking．Horizontals are two No． 12 wires with three complete as lose At each and every stay in top half of fence，which has a stay every $27 / 8$ inches．Lower half has stays twice as close．At every his reverse twist of the cable wires is rever， his reverse twist at the stay prevents strands unwinding and fence becoming slack．

## Don＇t omit

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## Even Picket Tops H月 日月 Extra Sharp Bottom <br> aven Picket Tops <br> Extra Sharp Bottom Crimp

The fabric is very closely and firmly machine－woven
and durably finished both
and durably finished both ends are doubled over and woven back into the top cables $27 / 8$ inches apart．

## Galvanized Finish

This fence is galvanized，not painted，because we own and operate our own wire mills，which enables us to sell
material which will take on a smooth and heavy coat of zinc and which will not peel when the cable wires are gat 1 ．Therefore，we market this fence in its original coai galvanizing instead of dipping the finished rolls in at of paint to cover defective galvanizing．The
sultuil coat of galvanizing which we put on will
on：several coats of paint．


Lower ends of pickets pro－ jecting below bottom cable are alternately turned in and out（as in cut）．This makes it impossible for the bottom cable to be pulled out of
position．

## Construction

This fence is easily erected on turned cedar posts，with ball tops at gates and ends and a $2 \times 4$ scantling along the top or with two－ inch iron posts and pipe railing，which we supply．
Deep Crimp Pickets
The extra deep crimp adds greatly
to the beauty strength and tight－
ness of the fence．The corrugation
holds the cabled strand wires so
pickets cannot work loose or out
of shape．

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with galvanized frames and woven lawn fill－ ing．The bottom corners are made square to permit of the bottom strands of the fabric being secured to the frame，as wel！as lessen－ ing the size of the openings ．．． Sother outside improvement shows up to quite as good advantage as a good looking lawn fence．Let us have ur lawn，showing the position you wish the fence to occupy，also location of gates，and we will be gla to le
job will cost．Write for an attractive catalogue，showing all styles of woven and

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operator simply presses the lifting lug into the ratchet on the wheel with the foot. theteby
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plow stiff, strong, but light and handy. Hitch controls the plow perfectly, making a
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drive wheels is not sacrificed for the low-
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and ground to a sharp cutting edge.
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spring-presure and, therefore, the only flexible
harrow built


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Vol. XLIX.
LONDON, ONTARIO, MARCH 26, 1914
No. 1122

## EDITORIAL

## Are you ready for Spring?

We have had some "lion" and some "lamb" in March.

One of the best investments is the purchase of few choice garden seeds.

After a late spring snow flurry is a good time to sow the clover seed on winter wheat

Good sires of some of the best-known breeds are very scarce this spring. Do not be induced o part with a good herd header unless you have a better one to fill his place.

It isn't time to plant seed corn, but it is lime to buy the seed. The good seed is generally the first sold.

The farmer's busy season is at hand. Give our readers the benefit of your experience with the different methods of seeding employed.

Have the harrows sharpened, before commencing to use them. One stroke with a sharp

This is the season when good roads are most appreciated. Spring mudholes are usually the worst roads the year round. Mark their location and repair at road-work time.

A little gravel on that muddy lane would be ppreciated at this season. Remember this next wirter, when there is time to haul it. Good oads on the farm are as valuable as good public highways.

By using a milking machine, a subscriber in Middlesex County, Ontario, is able to increase his herd of cows by two-thirds with the same amount of labor. This means a great deal on his year ly net returns.

Clean, tidy surroundings add a great deal to the appearance and attractiveness of the farmtead. The women clean house each spring and the men could well afford to spend a little time in putting things in order in the yards and around the outside.

Plan to plant a few trees this year. The frequency with which we get strong and sometimes destructive winds, should be sufficient inentive, to say nothing of the added attractive ind a place having trees well located fo indbreaks and beauty

If seed grain and seeding and tillage implecould profitably utilize a few days in pulling down soritably utilize a few days in pulling ences on the farm. Too many fences of any kind are a nuisance, and fence corners are

## Delays are Dangerous.

There is some excuse for tardiness in answering letters of the every-day, gossipy type which friend writes friend, and even these should be attended to as promptly as possible, as friends are cuse for the dilatoriness, and often almost culpable delay with which procrastinating people atable delay with which procrastinating people attend to their business correspondence. Day after ay passes and the never-do-to-day-what-can-be-put-off-till-to-morrow-man finally forgets that he ever received a letter from so-and-so, or encourages himself to believe that 'it is now too ate to reply to that letter." This is, to say the least, not showing common courtesy to the arst correspondent. He doesn't look upon it as innocent tardiness. He doesn't believe that the man to whom he wrote is "too busy to write." But he, after a reasonable time has elapsed and oo reply has been forthcoming, concludes that his etter has been ignored, and that the party of him second part does not care to do business with him. It is almost an unpardonable offence against business principles to disregard a business letter, and yet it is so often done. The busy man on the farm seeks to excuse himself by teing behind the great bulk of work he, must attend to. He may work up a fairly good case or himser, but often just a very few lines written in a few minutes after supper would answer an enquirer and in the end possibly make honey for both parties concerned. A man may have had something for sale, and several enquiries may have come in after all the stock or produce has been disposed or. So often these teters are left unanswered. Such action is a poor advertisement for the owner's business. Could he expect these enquirers to write him at future date if he had hike stock or produce for sale ? No I Whereas a courteous line or two mailed immediately would gain the conifdence of the man looking for this class of produce. Thousands upon thousands of dollars are lost annually through putting off the answering of business letters indefinitely, and the amount of worry and misunderstanding resulting from it cannot be measured. There is only one sale rule to follow-answer all business letters prompty, concisely and courteously. Delays are dangerous to your business.

## A Sales Record Book.

A sales record book is one of the most valued books kept by many manufacturing establishments, and some of the most successful agents or farm implements and machinery keep such a book, which shows at a glance the date of every transaction together with sufficient data about the deal to bring everything back to the minds of those concerned. It is a simple "ready reckoner of all transactions, and goes a long way in traightening out any differences which may arise or in tracing up all articles which Lave been sold. Most farmers are not hookkeepers, but the simple fact that they are not is scarcely sufficient reason for their neglecting what should be a valuable asset to their business. Whether or not a complete record of the year's operations on the farm is kept, there is one thing which Should always be done and this is particularly true of the stock farm, and that is a concise record should be kept of all sales of pure-bred stock, giving the name, age and registration
number of the animal disposed of, the sire and
dam of the animal, with the new owner's name and address, and the price received

A small ruled book suitable for such a record could be purchased at small cost, and would prove a time and money saver almost every month in the year. It is often no easy matter o trace such transactions a year or two after they have happened, and all registration papers have been forwarded with the animals. How handy it would be to have a sales record book with all the necessary information at hand. Thi ame feature could be extended to departments o arm activity other than pure-bred stock. For that matter all sales could be kept on record in sucb a manner. It is not advanced bookkeeping by any means, but it is a record system which tends to lead up to further work of a like na ture. Try it

## It Must be Done.

We used to grow good fruit and we never sprayed either"-Did you ever hear that statement wafted through the air on a spring day when fruitmen are rinsing out the barrels and packing the pump, preparatory to spraying? We have, and it is a remarkable statement too, in that it is true and at the same time as ridicu lous a ramark as could be uttered at the prent time unless it be uttered e uttered at the presen conditions have undergone such or regret that tone, however, is usually one of disgust at the ignorance and folly of anyone so unwitted to spend time and money spraving thair pruit tres These remarks little remarks, deprecatory the practice, have those who a those

In some districts, the results last year wure not as favorable as should be hoped for but pe culiar weather conditions during the season of 1913 and the closing season of 1912 produced phenomena unprecedented in the history of fruit crowng. Ye in all there was nothing to discourage the grower but incidents occured that will prompt him to more diligence and thorough ness in the future. The onslaught of injurious insects has made the winter spray a highly pro atable operation, as none of the most injurious kinds can withstand the winter spray and come out healthy in the spring.

From year to year, the value of preparedness has been demonstrated for one day's delay may bring inclement weather that will postpone or prevent altogether a necessary application. In the case of the bud moth spray and codling worm spray the proper and opportune time is limited to two or three days and in a few instances, last season, an intercepting Sunday handicapped the sprayers in getting the desired results. The outfit and material should always ibe in readiness. Another outstanding mistake is made in the ne glect to thoroughly execute the job. There is no magic connected with the operation, whereby the pointing of a bamboo and nozzle at a having a man or engine working fifty feet away is going to insure clean fruit. Results are brought about by applying the mixtures to the leaves, blossoms and every part of the tree Four to six gallons is none too much for a fullgrown tree, and when the grower once does the work thoroughly and applies the mixture ungrudingly the results are usually so gratifying that he will increase rather than diminish the amount the succeeding year.

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## Broadcast or Drill.

Spring seeding each year brings up.a point as to whether largest yields generally come from shown that on the average, taking into consideration early, late and medium seeding, that drilling has a little the advantage one year with anseason drilled grain stands a better chance than broadcasted grain. Of course, there is a little extra cuitivation given generally where drilling is sow with an people nowadays who broadcast box attachment and cultivate the seed in, whereas where the drill is used an extra stroke is given with
its work.
In cases where the land works particularly well, is in good tilth, with a fine, dust mulch prepared on top, where there is no ciogging and
the tillage implements go through fairiy well, and where the seed may be put into the ground early in tue season, broadcasting often gives as good
results as drilling, but as the season advances and some of the fields are being sown rather on the late side, we would advise holding fast the driling system. It takes a little longer per-
haps to drill in the grain but generally pays in haps to drill in the grain but generally pays in
the long run, although as before stated, where the seed is in the ground early and the land is in first-class condition there are some points in
favor of broadcasting, and there may not be very favor of broadcasting, and there may not be very
much difference in yields per acre. The main thing is to get the land in a good state of cultivation. It is not necessary on good, clean soil
to work it to a very great depth, but whether broadcasting or drilling be sure that a good seed bed is prepared before the seed goes on, and, as
so often advised through these columns, don't forso often advised through these columns, don't for-
get to use the drag harrow as much as possible.

## Nature's Diary

 A. B. Klugh,THE PINES.

Of all the Canadian Pines the White Pine,
(Pinus 'strobus) is undoubtedly THE PINE (Pinus "strobus) is undoubtedly THE PINE mainly because the wood is light, soft, close grained and easily worked-the carpenter delight.
It is a stately tree, one hundred to a hundred and twenty feet in height, with spreadiag, horiEastern Pine with leaves in bundles of five, and ranges from Newfoundland to Manitoba.


## Fig. 1.-Pollen-grain of pine, showing wing

Clustered behind the new shoots are the stammater cones and from them in June, the pollengrains descend like a shower of golden rain. The
pistillate flowers show themselves in a cluster bout the terminal bud, which keeps on growing, leaving them to ripen through two seasons, whe their end of the second summer they discharge lination and The Pines are adapted to wind pol have two wings (see tain them ings (see Fig. 1) which help to main winged and are thus transported to considerabl distances by the wind.
the buds on the crown of a baby Pine cluster at the top, a circle of five around the central bud base five branches radiate. We can thus coun the years of a sapling Pine by its whorls branches. If anything happens to the terminal bud the trunk is maimed for life, as either one leader's place, or two will do so resulting in a forked trunk.
early, thus ge fing the lower branches die very ree from big knots
austible great Pine forests of Canada seemed inexaustible to the early settlers. But the avarice of
lumber companies and the wilful blindness politicians have squandered this vast, natural wealth.


## Fig. 2.-Jack pines on rocky hill at Shawanaga Rive

The Red Pine (Pinus resinosa) is a large tree from seventy-five to a hundred and twenty feet in bundle. It prefers dry' sandy soil or rocky ridges and ranges from Nova Scotia to Manitoba. It is often called Norway Pine, because an early Spanish explorer erroneously described it as identical
with the variety of the Scotch Pine which grows

The Jack Pine (Pinus banksans) extends it range farther north than any other Pine, running,
in the Mackenzie River region, almost up to the Arctic Circle. It also has a wide east and west range, extending from Nova Scotia to the Rockies. It grows only on barren ground, and along higher up the mountains than any other tree. It is usually a rather low scraggly tree, but occasionally reaches a height of seventy feet.
The Pitch Pine (Pinus rigida) is a gnarled,
irregular, tree fifty to seventy five feet in helght wange is from New Bruinswick to Ontario.
its wood is of little value, the tree is . While another way-in holding sand dunes in place. has a habit which is unique among the Pives that of sending up suckers from its base The Silver Pine (Pinus monticola) is found th soven thousand to ten at elevations of from seven thousand to ten thousand feet, where cones are twice the size of those of the white Pine.
The Limber Pine (Pinus flexilis) is a broad stout-trunked tree, forty to seventy-five feet in height, which grows at altitudes of from seven where it is an important timber tree mountains. most of the Pines it matures its seeds in year. The staminate clusters are tinged with rose-color.
The White-bark Pine (Pinus albicaulis) keeps near the timber-line in the mountains of British species. One of these trees, three feet high six inchess in diameter was found to be 426 years
old. The Yellow Pine (Pinus ponderosa) is a spino like tree with stout, short, horizontal branche feet in diameter. It is found in British to oigh where it is one of the main timber trees grows in a variety of situations but prefers deep well-drained soil on mountain slopes.
The Scrub Pine (Pinus contorta) is a stunted tree of exposed situations on the Pacific Coast.

The Lodge-pole Pine (Pinus murrayana) is a of Alberta and British Columbia. It is tall and slim, averaging about 5 inches in diameter and 50 feet in height, and forming a stand as thick as wheat in a field. The name Lodge-pole Pine was given was put by the Indians. They also make a cake of the pounded and baked inner bark.

## Hiring the Man.

The Farmer's Advocate has recently received several letters discussing what some call the hising system on the farm, but the main point at hired by thether or not farm hands should be months or by the year. Many men operating a comparatively small farm, require hired help during the summer months, but can, by doing a
little extra labor themselves, or perhaps in some cases it is not necessary to do very much of this. manage during the winter. This class of farmer sees no advantage in hiring his man or man, as the case may be, by the year, in fact be thins pay wages during the winter pocket by having to very little work for his men to do
The man on the larger farm, requiring labor his help for the entire to hire at least a part of usually requires extra labor during the summer months and must depend upon short-term hired men or day labor. It would require considerab to warrant the hiring of an wholesale by the yoar. This paper has advocated that in so far as possible, the farmer should do so, that he would be greatly benefitted by getting his help for as long terms as possible, prelerably the year and 10 this it is necessary in many' cases to provide a man is usually the married man.
Many' new contracts between hired men and
farmers are being farmers are being made at this season
and hundreds of men throughout the
country will sitart work the first or
 commenced, but just now there are thousands of farmers looking for help and many men between view to hiring. For the man carried on with a hired help by the year and who has not kept we believe it would pay in many cases if he would change his system of farming a little and his hired help in winter. The seventy-fwork for his hired help in winter. The seventy-five or onevery well increase his live stock, plan some teaming which might be done at a profit for the farm and several other odd jobs to keep the man have him ready for satisfactory hother spring which would obviate a lot of trouble in the securing of hired help. The man on this size of farm would be safe if he worked it rightly to ing this for at least one year. Once tried, we be lieve he would stick to it. Of course, it is ne as a general thing the hired help does not expect as high pay in winter as in summer and by contrac ting for the year, a lower all-round wage would be possible and better satisfaction would result

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to all. Of course, there is a certain class of men who prefer to work by the day and these
will generally find all the work they can do on the larger farms and on some of the very small for a man even by the month. Thenough work small farms and those on the very large farms can profitably hire by the day. Of course, this only applies to extra summer labor for either of these classes of farm; the large farm must have const proprietors try to hire and of course, most proprietors
It is always advisable to have agreements misunderstandings between parties. It sometimes looks superfluous, but it is safer for both parties to the transaction if each man has a copy of his agreement. He knows just what is expecit is possible to do so, the married man by the year is the man to hire, and where houses are not provided and single men hired, the farmer would do well to plan his work to keep these men winter and summer. Once a man is let go to the city for the country, and this has been responsible fack a good deal of the dearth of farm help at the present time. Men have been hired for seven or eight months, and then turned loose and very often these men do not feel that they should be out of work all winter and leave for city factor-
ies, where work is available the year round this les, where work is available the year round, this very often to their own detriment and certginly
to the detriment of agriculture in general.

## THE HORSE.

The horses will take more salt while at the
pring work. Keep a good supply before them all times.
A steady gait in the fields accomplishes mor in the end than sharp spurts and long rests and
is easier on the horses.

Straw may be getting scarce at this season the year, but even though some of the other give the working horses a liberal supply.

Keep the stable well ventilated during the pring season, but avoid direct drafts on the working animals. Colds often result from the coats of the tired animals

Read the article in this issue on the care of ew new-born foal. most delicate animal which the farmer has to raise is, as a general thing, the foal.

When beginning the horses on the land, rest them at short intervals and lift the collars from off their shoulders and rub the shouldors dornn and goes a long way towards preventing ugly
sores,

During the heavy work of spring seeding teamsters should remember that. it is not good
practice to give grain to over-tired animals as practice to give grain to over-tired animals as
soon as they come into the stable. Give them a little hay at first, allow them to cool off and

This is the season when scratches are quite prevalent and many of the horses are noticed to
stamp because of itchy legs. with horses predisposed to this trouble, take a little time to dry the legs and fetlocks each
night when they come to the stable. night when they come to the stable.
Too much water, especially' very cold water, work, may produce colic or other digestive derangements. By all means, however, give the
warm, tired horse a few swallows when coming in which will aid in cooling him off, moisten his parched mouth and throat and induce him to eat

## Curing the Kicking Habit.

 ing hiching and switching in horses
commen the ac-
 Joumin,"' of Winnipeg, Man., may prove of value in twining young horses and curing kickers. fallon ing the greater portion of my life it has
hor. have a great deal to do with
Some of the things I have been able to fallen. in my lot to have a great deal to do wi
hor... Some of the things I have been able
learn in this iong schooling may be useful
others. Every horse owner, however carefully he
may select his stock, is ${ }^{u}$ certain to be confronted by emergencies which will try his patience and fortitude and in which wif try his patience and what to do, the horse will come off a winner The first essential in handling horses is know the equine nature and its limitations. It of the horse, like thy conclusively that the mind differ from that of man in kind but in degree. But the fact that it does differ a great deal in
degree imposes a limitation that is of the most importance to the horseman, for it causes the horse to reason a great deal more from experience and a great deal less from observation.
In fact, horses that reason to any noteworthy extent from my observation are rare. Suck horses from seeing their pasture gate unlatched
pearn to unlatch it themselves. I have had a


An Apparatus for Breaking a Kicking Horse. without making the slightest progressy toward
breaking up the habit. If he realizes what he is
being punished for-and it would seem in some being punished for-and it would seem in some cases as if he must-the punishment is still inpower to defy you, and as long as a horse realizes his power in any wrong direction he will not come to terms. The only way is to show him that it is in your power not only to handle him as if he were a toy, but to handle him very
roughly, if you so desire. This must first be shown in a general way, and then be applied to the particular $h$ a b it
that he may have contracted.
Let us now take what is generally and justly considered one of th e ing in harness. The first ing in harness. The first have has no direct bear ing upon the vice itself,
but is simply an attempt a $t$ general an attemp there are few things purpose so well as lay ing a horse down a fov itmes. The means tha in a ve eround entirely lows:
Hav

Having first selected a suitable place where h
w 111 not hurt himself put ou him a bridle and surcingle and strap up
his near forefoot with a his near forefoot with breeching strap-the
short loop around $h i$ a foot between hoof a n i fetlock and the long on over the upper part
kis leg. Fasten kis leg. Fasten one end
of a long strap to the
the fetlock horse that would not only do this but would off forefoot below the fetlock, pass the also open the dor the feed room, punt out other one up through the surcingle and the slide in the grain chute with his teeth and take it in your right hand, the bridle-rein being help himself. These ca,ses are unusual, however The majority of horses see their pasture gate unlatched a thousand times without attempting to open it themselves, even though a simple thrust
of the nose would do it. On the other hand, the little colt whose experiences in being halter broken have taught him that he cannot break his halter rope, submits thereafter to being tied ly a rope that he could easily break. Reasoning
wholly by experience, he believes that a slender


Bright Morn 2nd.

## cord will hold him. l3ut by some accident he

 some day breaks the rope; then if he fully ways occur-he has learned by experience a new thing, and will thereafter try theevery halter with which he is tied.
In breaking a horse of any vice it is necessary always to take advantage of the limitation in his mind that makes him reason almost wholly fll vour will is superior to his and that he has no alternative but to obey you, and do so gently and quietly. In teaching him this lesson punishment has virtually no effect. Let us sup-
in your left. Push the horse sidewise and the moment he steps pull sharply on the strap. This will bring him to his knees. If he is a horse of against this treatment, often springing high and plunging desperately, but, having the use of only his hind legs, he soon becomes wearied and rest with his knees on the ground. Now pull hi way. By slimply holding down his head he cal way. By simply holding down his head he
Though all this may sound very simple there is more to it than appears. If the horse be a large and strong one it will be wiser to have an assistant who may hold the horse's head by a only the foot strap.

After the horse has lain on the ground for a few minutes-long enough, say, to have taken in the situation fully-release the straps and let him get up. Then repeat the whole process several times until the horse ceases to make such resis-
tance. By this time he will have lost much of his self-confidence-which is just what you have been working for-and will be in fit condition to be harnessed

In harnessing proceed as follows
Have ready a strap one and a half inches wide and eight inches long, with e ring sewed strongly into each end. Attach this firmly to the top
of the bridle so that the rings shall hang just over the rosettes. Have an extra bit-a straight an iron ring securely the the back strap of the harness just where it is crossed by the strap
that supports the breeching. Now take a firmly that supports the breeching. Now take a firmly
laid cord, about the thickness of your little finger, and tie one end round the off shaft just back of the crossbar;, run the other end up through the ring on the back strap, forward through the off terret, thence through the ring
p.bove the off rosette, down through the off ring ebove the off rosette, down through the off ring
of the extra bit, over the horse's nose, through of the extra bit, over the horse's nose, through
the near ring of the extra bit, up through the ring on the back strap and tie to the near shaft back of the crossbar, just as was done on the off side. Adjust so that the horse's head will be
kept about where it would be held by an ordinary check-rein. Tie a string over the horse's bridle to where the cord passes over the horse's nose to keep it from slipping off.
With this device the horse cannot possibly kick, for every time that he attempts it his nose
will be jerked up into the air in a way that has a very chastening effect upon him. The horse should be driven each day with this rigging on,
seeing that he does his duty, but being quiet and gentle with him. After a time he will make no further attempt to kick. He should not be
trusted too soon, however. Keep this rigging in use until you feal thoroughly sure of his reformause until you feel thoroughly sure of his reforma-
tion; then substitute a check-rein for it, formed
known this method to principle. I haven applied as above
suggested. Moreover, the cure is permanent.

## Care of the New Born Foal.

As the season in which a large percentage o breeding mares will reproduce is approaching, it the precautions that should be observed, and the manner in which abnormalities should be treated, minner in which abnormalities should be treated,
with the hopes that the discussion may be of some value to breeders that are begimiors. In any Eattention neither dam nor offspring requiros and proper ford than attention to comiort, and proper lood and water, but abnormalities observance of precautions wise. Marese to make reproduce ohould be carrofully watched. The attendant should be a carefth man, who at least order that he may be "able to recognize an ubnormality, and of course it he have a technical knowledge and ability to handle abnormalitiss
all the better, but oven though he should leck the latter knowledge and ability he whoull at least be in a position to procure skilled attention if ecceessories which should be provided with certain and in some cases the time necessary to require, them when their uise has not been anticipated may mean the difference between a living and a cord immersed should have a knite; a strong cent. solution of sarbolic acid or other disinfeccant, with the string profecting beyond the cork in order that it may be secured promptly; another tant as a solution of corrosive subligg disinfec15 .grams to 8 . ounces water; a 10 birmate abou tion, of carbolic acid or other strong disinfectant The writer prefers the first mentioned. He should have a 4 oz. syringe and if he has a
general knowledge of obstetrice general knowledge of obstetrics he should have
Home parturition instruments; a smal strong rope, parturition instruments; a spliced as to form strong
rond; a neat loop in one should be chooks etc. As stated, the mare commence the attendant should if possible keep so situated that he can- sut at the same time the presence of an can see her. In most cases mare, but there are cases in which to excite the appears to have a salutary effect and of cource such cases should be treated accordingly. When the progress is normal of course it is unwise to delivery is nit labor pains be well marked and cartain sot progessing, or has progressed to should endeavor to ascertain the cave attendan have sufficient knowledge and skill to remove he obstruction to delivery he should do so, if not it is not wise to interfere t attention. words '"give neture when oxtraneous interference is required it should be given promptly, as delay or punskilled interfer-
ence may cost the life frequently of the dam of the foetus and not unboth may be very easy and occupy only a very, tew minutes in which case it is not uncommon for and in some cases the latter are not ruptured ond unless they be cut or torn and the foetus exposed to the /air immediately it will perish from suffooation. Instinct is supposed to teach the dam to capture the membranes with her teeth in such cases, but the fact is, she is seldom prompt enough and the young thing perishes. The at-
tendant should cut the membranes with his knite and remove them from the foetus. In such cases and frequently in cases when the membranes are ruptured, but expelled with the foetus, they are
gtill attached but by the navel or umbilical cord. Conditions are more favorable when the cord is broken during parturition, but where not it must that is in the solution in the bottle and ties it
tightly around the navel cord about one inch from the ardomen and andould about one inch
scraping motion of the knite about with a
ane inch parturition or sethered afterwards it it should be dressed as or soon as postiberwards after it should be
eral times and saily afterwards until it dit dries sevd eral times daily afterwards until it dries sevd
heals. This precaution is wise ns a prevention
in most cases, to leave, them alone. if the toal bo weak and unable to halp. himself, when a
most two hours old, the attentint shoutd himin to his feot and see that hat gets nourishment and this should be attended to hourly day and night, until he is able to rise and help himself. Care should be taken to observe that the excre tions are normal. If the ineffectual attempts be made to void urine, or it be voided through the ascertatn that the normal passage be not occludod and if it is the occlusion will . be broken down by the catheter. If the contents, of the bowels, which exist in cark brown or: black balls of varbe not voided spontaneously within a fecw hours of birth, and especially if ineffectual attempts be made to void it, the attendant, should, first trim or cut his finger nails, oil his forefinger and insert it carefully into the rectum and remove all of these lumps that he can reach and then, syxinge fulls of equat into the rectum a lew and warm water or wart of raw linseed oil good toilet soap in it. This should be repeated every few hours until the excretions become yellowiah in color. This treatment for what is too firmly enntion of the meconeum cannot be of administering laxative or purgative practice in these cases, causes the death of medicines that could otherwise have been seved: The trouble is in the rectum. The meconeum exists in lumps so large that the foal has not sufficient expulision power to force them through the anus. action upon the conton of have causing a greater or less fluidity of the hence by of the anterior intestine but not removing the lumps from the rectum they simply complicate matters. In rare cases it is necessary to give the finger and the inger and syringe as stated, will suffice and
not in any way deplete the energy or thrength of
the patient.

## LIVE STOCK.

## Ventilating the Piggery

## Reforring Farmer's Advoc

descriptions to the two pig pen plans and Advocate, I haveme a recent number of the better keep on that I think you had that will be to build a pen all I built a pen similar winter weather. Last The ceiling was of inch lumber laid No. 1 pen. joists. The building was double boarded on the outside of the frame with tar paper between. A soon as cold weather came, the whole inside. o opinion as to what with frost. I have my own my pen drier, but I would like to done to mak tinue your article re pig pens and tell us how to Frontenac Co., Ont


A Good System.
he King System of ventilation as shown for a dairy
barn or hog-house, from Productive Swine Hus-

## These columns have always been devoted to

 the description of plans that are within thereach of the average farmer. Particularly have ve tried to present farmer. Particularly have
quarters is throwhramase ealatho-result mite that milions of dollars' worth of awine fall a victim to difeases of a contagious nature. The soil is try and duplicato the light and raisers shoul sir and sainitary conditions that surrounded them in that state. The foregoing letter is a reminder of the general mistake miade in the construction of farm buildings at the present time. The th sence of ventilation and lack of light are to common to be pardonable but epidemics and dis eases will, in time bring our opidemaics and dis: ization of the fact and be instrumental in the construction of better buildings.

Regarding ventilation in the piggery nothing has ever been achieved that is universally satisfactery. If we might venture a suggestion in connection with oun correspondent's letter, we would say that the lack of ventilation in the on the walls which might have been made in the improvement of the building and that is to have veed then studding to provide an air space between the laylers of the wall. The' best wall to exclude cold and insure dryness that we have seen or heard dale, of the Central Experimental. J, H. Grieconstructed in the fallowing manner- Farm. It is side is of smooth or dressed lumber followed one thickness of linofelt paper theny will come the studding, an air space followed by two thicknesses of building paper over-laid with matched lumber and battings. This, of course, is a more for a piggery, but the principles therein to provide are of use in studying the nature of set forth insure dryness and the exclusion of cold.
Ventilation is a great help in preserving dry-
ness, but it is difficult to secure it without rificing warmth to a certain extent, yet the sacwill be more comfortable where the ventilation is good rather than in stagnant warm air. In modern piggeries one idea is being put into practice and
that is doing away with the ceiling and providing more air space in the building. This how. ever, necessitates lining the inner side of the rafters with dressed lumber and increases the expense. The principle which must be worked out some exit for the stag into. the house and provide are systems in vogue which provide this and ually it is a comblination of the many which gives the best satisfaction. The Rutherford System allows for the inlet of air with an exit leading up from the ceiling of the building to an outlet with the outlet King. System provides inlets going up the wall, up the side of the roof and opening at the ridge-board or peak. In their. entirety' they are somewhat expensive, but a cheap modificationsive system might. be provided as a In the of the two
In the case of the King system, the inlets ing and diffuse the outside, enter near the ceil ing and diffuse the air over the top of the pen eight inches should start near be four inches 'b der to collect and carry off the implure and sta nant air. The cupola or outlet at the top should of air arranged that snow or a downward curren of could not trouble in the outlet flues. In the case of the Rutherford system, this fiue opens at the ceiling from the bottom, of the pen this outlet flue in the flue. The dimensions ol be somewhat larger than were described for th King system. We are inclined to believe that ceiling made of small poles placed a fow inches apart and covered with straw would control th straw should be removed yearly for it will be come a harbor for insects and disease gurns. In addition to this, it would be a simple operation
to construct the flue upwards through the ceiling to construct the flue upwards through the ceiling as described for the Rutherford system and as
for inlets some cheap system or aperture might for inlets some cheap system or aperture might of the window to act as a means of admitting Where a feed cooker is installed in the huild ing, the flue and the long pipes will provide a good circulation. If it is a small building, the stove should, be at the opposite end of the build-
ing from the flue and the heat of the pipe going through the flength of the beat of the puilding will generate an upward movement of air. Where the building is quite long, the stove might be situated in the centre of the building, in order to do away with.
the long length of pipe. A small outlet could the long length of pipe. A small outlet could
be opened at the bottom of the flue and the be opened at the bottom of the flue and the
draught up the chimney would insure sufficient draught up the chimney would insure sufficien-

Our Scottish Letter. The month of February was crowded with vents affecting stock-breeding, eacs of which The Spring Show of Clydesdale stallions was eld at Glasgow, and of Shire horses in London; the great spring sales of Shorthorn, AberdeenAngus, Galloway, Highland and Ayrahire bulls angus, Galloway, higeland and Ayrahire bulls March) has witnessed the Hackney Show in London, an event of declining importance, on account of the advent of the motor car, or as you term it, the automobile. The Spring Show of lydesdale stallions was certinly have had for several years. Horses were of weightier class, and some of them were quite outstanding in respect oas a decided improvement
this respect the show was on some held in recent years. Perhaps the most marked deficiency from the standpoint of the oreign buyer and patron of the Clydesdaie was the gaudy color of some of the best horses. To
whatever cause it may be attributed the fact is undoubted that the colors and markings o Olydesdales are much less satisfactory than the used to be Darnley was a remarkably well colored horse. Thare was a minimum of whit markings on him altogether, and, as a rule, his minimum of objectionable white markings. His great compeer, Prince of Wales 673 , was also a well-colored horse, but as both of his grandam were grey his progeny occasionally came rathe over, did not happen often, and regard being had to the fact named, Prince of Wales could not be accused of doing the breed any injury in this
respect of color and markings. The horse which really did damage ifi this respect was Lord Erskine 1744. He was himself colored rather diverse hues. As he was not unpopular as a sire, and many of his sons were retained as tim not a little that could have been done withthough he was himself quite well marked, was also in this respect, yot good. His own brothen Prince Leopold, was of variegated hues, and the became a potent influence in the modern breed became a potent liawact 10067 , and although the, too, can be classed as not unsatisfactory in coior and markings, some of his progeny are not quite free from. gaudy markig. Therever a of ill coloring Clydesdales, not necessarily chestnuts but irregular white markings all over the place. Shires in this respect have been
greatly improved. When we first visited the Shire Horse Show neerly 30 years ago colors were very varied. One found chestnuts, greys. hrowns, and there was little uniformity. This year we saw all the mares and fillies in the London Show, and with the exceptiỏn of a few greys among the older mares, the colors aal
browns, with an occasional black-were all that could be desired. The Shire men have certainly worked hard to improve their breed, and have a good deal to show for their labor
But to return to the Stailion Show at Glasgow, the senior champion honors went to of Baron of Buchlyvie. He was unfortunately going lame, and the judges threw the responsibility of saying whether he should be placed or aot upon the veterinary surgeons. As they had
examined him thoroughly on the previous afterexamined him thoroughly on the previous after-
noon and found him sound, treey declared the lameness to be only temporary, and the judges acted in accordance with this verdict. The Cawdor Cup, open to ali ages, went to anothe of Mr. Dunlop's horses, Dunure Refiner, a two
year-old, got by the grand horse Dunure Foot print, which himself won in the aged class. Last year Dunure Refiner, which his breeder Robert Bryan, Orchardton, Curnnoch, exhibited success Show as Lord hute, was first at the Stallion cessful all through the season. He is descended on the dam's side from the sometime champion mare Moss Ross 6203, thirty years ago the best Refiner grow and develop he will make a great not pasy for the outsider-and especially the natured. to follow ines io selligently an award which colt. It ought to he mentioned that the twe
best old horses at the shove. Dunure Footpris and Scotland Yet, respectively placed first and second in their class, kave already both won the
Cawdor Challenge Cup and were not eligible
 ware awarded to horses owned by Mr. Marshal
Stranmaer, Miltiades and Royal Daylight, as the
 quality and wight. A curious
nection wone in ith cood
the show is the position of nection with the show is the position of
$M$ iltiades. When exhibited as a trese-year-old ke was disqualififed on veterinary grounds. Now ke Sentland, passed as sound by their veterinary ,iilspector. To the average layman it appeals ow very funny, and such incidents add strength the of veterinary examination for soundness in breed ing horses.
The Hackney Show has fallen on evil days, and yet it is long since so many fine horses werre exhibited at London as have been seen this week. is horses shown in harness-was Mr. Fobert Scott's Mathias 6273 at Thoruhome, Carluke, Scotland. A splendid lot of about, a doze. horses and mares were shown atter him, in leather, and the. Worst of the twelve was a good
harness horse. In the final his representatives were dofeated by a white-legged horse named Gay Boy, owned by Martine Cde Hoz, an Argentini magnate who resides meanwhile in England. Gay
Boy was bred in the Argentine, and is of prime Boy was bred in the Argentine, and is of prime
Hackney pedigree. His action while very fine lacks the distinction of the action of the Mathias group, and Gay Boy was cortainly lucky to take champion honors from his successful op ponent of last year, Wm Philip Smith's King of
the Air. This is a beautiful mover, and his name indicates the character of his action. He moves with easy grace, and is only to be adversely oriticised in respect perhaps that hil action in front might be a little more uniform In the produce group competition for harness three ehosen exhibits-King of the Air, Fobert Black's Footprint, which won the novice class;
and also his height in the open class, and A. W' and Also his peight ini the oren elasso and A. W.
Hickling's superb black horse Adolton Black
Prince, which won- third in his class, and is

 benefited from the policy of the Board of Agricul
ture for Scotland in awarding premiums to lare for Scotland in awarding premiums to holders. The result of a efmilat policy in Tre laid has been of untold boinetit, and there is every likelihood that like resulta win follow in
Scotland when, in sio of the figh stan Scotland when, in spite of the high stan
dard of excellence attained py pedigree cattle dard of excellence attained py pedigree cattle
the common feeding cattle of the country coukd stand a deal of levelling up. The Ayrishire breeders are reaping the benofti of the farseeing
labors of the late John Speir. He labored for labors of the late John Speir. He labored fo years at endeavoring to foster the milk-recor it appeared to little purpose. But at last ho got the Highland and Agricultural Soclety to move in the matter, and bit by bit the ground wais: occupied until now there is a regula publicly controlled system recording mil a gield price for a bull they must have not only a. good individual animal but also an authenticated ynd guaranteed milk reoord behind him. The ly 200 at Lianark this. week have unde an average of $\& 18$ aplece, and the top price has been SOOTLAND YET.

## THE FARM.

Farm Engineering.
PaINTS AND PAANTMNG.

$$
\begin{aligned}
& \text { The coming of spring is a signal for painting } \\
& \text { verything, house, barn, fence and machinery. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { everyhing, house, barn, fence and machinery, } \\
& \text { Not all paints are of equal vave for this work }
\end{aligned}
$$ A paint for woodwork consists of some dry A paint for moodwork consists of some dry

coloring material, a load or zinc base, a drier


Meuld. It is the
vehicle whtoh is
often, wongly
chosen, and in
ready-mixed paints
$\qquad$ ready-mixed paints
the vehicle is $t h$ e
part which is most part which is most
likely to be adul-
terated. For outterated, For out-
door Work, except
decorations, boiled
$\qquad$ oil and tuifpentine A little drler, lithpaints and sugar of
lead for 11 ght er
paints, should be added to each batch
of paint mixed. Undoubtedly linseed oll paints are
more expensive more expensive than others, but well worth the difference in
price. This oll enables the pain
to spread well, dry hard and opaque,
and leave a pro
tecting aldin

Sittyton Favorite
Winner of the junior calf class at the Canadian National, 1918.
If adulteration is
quite one of the greatest harness horses on the road. Mathias is a son of the old London champion: Ophelia, and another of her sons Hoz for the second time won the stallion championship, while her direct descendants, Beckingham Lady Grace 18902 and Beckingham Lady Gracious 22388, were respectively champion and reserve Squire 8070 , and their dams are mother and daughter. Beckingham Squire is a son o Polonius, another son of old Ophelia, and while
Beckingham Squire won the Produce group fo Bemales, Polonius was reserve. The winner of Produce group for staliions was a horse
named Admiral Crichton 9578, whose sons bred two firsts. We rather think he is also of Polonius breeding. Indeed wackney would scarcely
have any existence.
The bull trade this year in Scotland has been The bull trade this year in Scotland has been abnormably almost all breeds. The highest price for a Shorthorn was 710 guineas, for an Aberdeen-Angus 360 guineas, for an Ayrshin. The reason for the splendid Shorthorn trade is that while cases of in England and Ireland, Scotland is free and has been consistently free for years and the Argentine Government have kept their
either resin oils, mineral oils or fish oils, the paint will either remain sticky
forever or will harden quickly, only orever or will harden quickly, only to soften again in a week or ten days. Particularly should dark-cith suspicion unless purchased from a thorough with suspicion unless purchased from a thorough cheap, usually contain only unrefined resin ofls which soften up within two weeks of the first
drying. They never harden again but always drying. One of the best paints for roofs and machnery, yet not a very expensive one, is knowm as asphaltum varnish. It may be purchase ready for use, and when applied leaves a splen-
did-wearing, black surface which thoroughly pro tects the metal from rust.
Water paints as substitutes for oil paints are not altogether unknown on the farm, but the fol-
lowing is a good waterproof paint containing lowing is a good waterproof paint containing price. Add hall a pound of brown soap to quart of water and dissolve by beating. To thil add three quarts of boiled oil and about one ter desired with one quart of turpentine and then add this to the paint. If need, strain
finished paint through a fine sieve.
Almost any paint may be sprayed upon the surface to be coated in the paint worl thinnel Use any ordinary spraying apparatus. Probably
whitewash is more commonly applied in this way
than any other coating. For fences and outtime economical as a cement whitewash. While as former requires frequent renewals, the cement wash often remains satisfactory following several
years wear. The combination is best made in the following proportions: Mix together one peck of white lime, a peck and one-half of hydraulic cement, six pounds of umber and four of ochre. The lime is first slaked and mixed vinegar. Then add the other ingredients. Allow the point to stand for three hours or longer, stirring frequently. The addition of half a pound of Venetian red- renders the appearance more
f ordinary whitewash is used at all the a dition while hot of a small. amount of flour mixed with boiling water, will prevent the white wash trom rubbing of so readily.
For finishing interior work, varnishes are best to use. They give an extremely hard surare easy to clean thoroughly. It is not advis able for anyone but an expert to attempt to nix them at home, for many good ones are on the market as well as plenty of worthless mixtures called varnishes. True, varnish is a solu-
tion of resins or gums in some suitable liquid, tuch as atcohol or ofl of turpentine mixed with linseed oil. Those in which alcohol acts as the solvent are spirit varnishes and are far inferior to the oil varnishes in many ways, chiefly be varnish so hard as to easily crack and chip. The oil vernishes, on the other hand, should never get brittle

## Rotation and Cultivation

 Dditor "The Farmer's Advocat As the time is approaching when we as farm ers will be once more turning our attention to the planting of the spring crops, a few words othe'subject may be appropriate. To properly treat this subject it will be necessary to go back the full length of a rotation. Part of ou farm being high land and part low land, we practice two separate rotations. The high land ing too heavy, and on this we use a two-year rotation. consisting of wheat or oats and barley, seeded with red ciover, and the next year cut fo hay or pastured. Part of this is sown with fall Wheat, the rest is plowed at a depth of six
inches in the fall, and sown to oats and barley mixed the following spring. The land sown to wheat is well manured, but we do not manure the ground sown with oats and barley. It is our practice, as far as possible, however, to alternate the present rotation will have oats and barley in the next rotation. So that the land is manured once in four years.
On the low
On the low land we practice a three-year rotacut for hay or pastured the following year planted with corn and potatoes the next. The corn and potato ground is always manured, and this ground is plowed six inches deep in the fall preparatory to sowing, with oats in the spring. just say in passing that the best oats in the field grow over these drains, and besides, we can get on the field to work much earlier in the
spring, which also increases the yield of grain. As to preparation of the seed bed, as soon as the land is fit to work it is gone over with the it up and let the air in to warm it and hasten drying. It.is then usually left a day or two beore further working, after which the ground is
well stirred with the disc or cultivator or both and thoroughly pulverized by the frequent use of the drag harrow, this latter operation being considered very important as it leaves plenty of fine
soill to cover the seed. The grain is sown with the drill and the ground immediately harrowed. About five days after sowing the grain clover
seed is sown, and the ground harrowed again to cover the clover seed and break the crust if one
has formed, and thus help to conserve moisture.
Norfolk Co., Ont.

A memher of Parliament recentlv remarked of apnles to a canning factory, the labor con-
nected with which would cost him $\$ 8.00$. $n$. turn he received five pecks of corn. valued at
$\$ 4.06$ and a check for 14 cents. Since the cx change on the check would amount to 15 conts tion to tale to the House of Commons, where saying "Educate the farmer to grow two blades slogan should the "give him a chance" and make profitably and satisfactorily dispose of that eally

## The Concrete Aggregate.

## Iditor "The Farmer's Advocat

Before it is possible to have strong concrete there must be a cleanıaggregate. The aggregute, to the man who is not likely to be doing any great amount of concrete work, may be considered
to mean everything in the concrete except the cement. Sand, in this sense, is also included instead of considering it to be part of the matrix. The aggregate proper is of crushed stone, gravel or cinders.
All things being considered it is possible to get a stronger concrete with crushed stone than dust, or "crusher run" as it is called, is left in. This being finer than sand and at the same time much harder is very useful in filling the voids. Stone is sold by the ton at an average price, in most towns, of one dollar and forty-five cents.
For the most part one inch stone is the best for fror the most part one inch stone is the best for small enough so that it will just pass through a one-inch ring. It is often the practice of dealers in builders' supplies to sell crushed stone with ordinary sand and dirt in, it as crusher, run stoned The easiest way for the inexperienced man to find Stone dust will not dissolve and will the stone. a sort of paste, while the dirt will simply wash away. The more dirt the weaker the concrete. Another little trick is to sell stone of a very inperior crushing strength to that of a stronger the crushing strength of their stone ind actual ind man not doing work on a large scale, it isn't necessary that the buyer should know their strencth. This trick is hard to guard against, but striking the stone with a fairly heavy' sledge will give a general idea: Stone of a high crushing strength will break into gritty fragments


Mutual Confidence
while weak stone will be ground to powder. Trap there is a great deal of traffic. Nearly anless crushed stone is strong enough for farm concrete because the lime gradually affects the be used, This stone can be recognized by throwing wate white in pile, thus causing the limestone to show the best way to remove the rest. Washing is owing to the difficulty of doing this ine but, country where it is seldom possible to dis in the pressure, this work sllould be done at the supply yard. The distance from the crusher renders the use of stone out of the question to most farmers and therefore the selection of gravel is of more Gravel concrete, while of only about seventyis strong enough for all farm work, provided Gravel pits are of different depths but the kest gravel is usually found at some distance below gravel appears to run, in what is known to care should be taken to preserve this formation done by stripping back the top soil for a distance gravel, and then cutting down a little at a time
the workers standing on the bench below. In doing this, care shoukd be, taken to make henchee bank falling. The surface in fronit of the wort the should be spaded level. The idea is to keep pushing back the pit by layers, and to throw down in rough divisions the different gravel me with by the men at the screens. This is the gravel pits, but in a pit from which the modern are hauling and where there is not a man in charge, difficulty might arise. One or two men dipping into a pit anywhere at all, simply spoit a good rovel pit for everyone using it. To ensure a good road into the pit, the gravel should be
taken out fin a circular formation. The circle pit allows more room to turn, leaves a low circle to the road and is/fairer to all using the pit The principal thing to watch is not to rig into the bottom of the/pit, because the gravel slumps lar quicker
In connection with the pit there is the screen work. Two screens, at least, are necessary; one for sand and one for gravel. These screens can mental iron works. The price mesh and on the size. They should be shout three feet 'by' five. The sand screen should be one quarter or one-igth inch mesh, and the gravel one-half inch. The wire should be monnted on a frame legs. Screens made and have two supportthe lest, sis they are too much. These screens will average in brice about three dollars each.

Screening is not as simple as it looks, but soon learn practice the inexperienced man will mounted on a board platform with a screon is around the edge. The gravel is simply threwn against the sloping caught as it falls by twisting the showel. The gravel should be thrown against
the screen at least the screen at least
twice. In fine sand necessary to use a screen finer $t h a y$. one-quarter inch.
Putting fly-wire Putting fly-wire
against the screen will help, although such sand is more useful in plastering than in concrete. said to be of three kinds : screen, pea, a nd pit-run, or
bank-run, named in bank-run, named in value. Pit-run is just as the gravel is taken from $t$ he pit without screenthat, acd is not from a part of the pit in which there is a shelf of coarse core, has pea and small-screen gravel satisfactory for all small farm in it and is quite as walks and floors if it is reasonably free from able for walls of any size. In get in suitout pit-gravel, care should be taken to see that the top soil does not fall down and that soil
seams are avoided. It is well to remember that it, is almost impossibl is well to remember that from this gravel. Pit-gravel is usually the best for drainage, if not too fine, and this applies to all uses because the more gritty particles in it, the better. It should be coarse enough so as advisable to use wh the closed fingers and is not cent. of soil ine when there is more than five per more dirt, the more cement needed gravel and the it is to get a proper wearing surface of smooth The gravel left after the pit-gravel has been "hrown against the coarser screen is known as scren-gravel" and is worth about twice as much as pit, or about one dollar and a half a
load of one and one-half yards. This gravel should be of different sizes which can be arranged by mixing the different pockets of gravel. The very large stones should not be used. because they will make holes in the walls. The less soir and better. Dirt can be removed by screen easier to wash. A slow stream, from a pump for instance, will do. Alow stream, from a pump the pit from rain, the dirt cannot be removed until:

THE FARMER'S ADVOCATE.

MARCII 26, 1914
dry. It is of utmost importance to have this
gravel clean. It is very important to have all gravel quite dry before attempting
tant aggregate for concrete, and is safe to use all walls etc. if the sand is also good. It is harder to use than pit, but makes a better job. The gravel left after the screen has been taken it is screened again, and is sold as sand and as pea. Pei-gravel is simply small-screen. Anything
that will go through a hall-inch screen and will not go through a smaller one is pea-gravel. Otten the farmer finds it better to use this with
the screen and the same method and use applies th the screen and the same method and use appies it as to the arger be put anywhere that screen gravel would be too coarse. Wher a smooth to with the - other gravel. It is worth about one dollar seventy-five a load in the pit. Gravel usually sold by one and one-half yard loads. Sand is of the greatest importance. It should
be screened'several times to remove all foreign dirt. Good sand is "sharp", that is, gritty to the touch and noticed by taking the sand in the fingers and rubbing briskly. The soft sand and dirt will rub to pieces, while the good sand will remain. Soft sand is recognized by its whitish color and by the fact that it becomes hotter in the sun, on account of its color and its greater packing power. In looking at good screen sand through a glass, shape and that the different grains will appear to sparkle. It is impossible to work in poor sand and thus get a good finish. Money spent
on good sand is sivel on the cement.
Shore on good sand is snved, on the cement.
sand is not, as a rule, suitable for concrete work, although there are places where the shore sand screened. Pea-stone pensive for ordinary use and are, not always easy to get. They are used in places where it is nec-
essary to get a brilliant polish, such as in verandah posts.

Cinders are not used as much for an aggregate as formerly, but are satisfactory for certain
classes of work, although they are not suitable. for walls, because they break up in the concrete
and will' not stand weight. It is, however, of use in fireproofing work. It is not used to kny be black and free from ashes. Gas house cinders are the best, and are worth about fifty cents a
load. In point of strength, cinder concrete is the least valuable of all

Sandstone, slag-slate etc. are poor concrete
It is better to use limestone than any of these, although it is much better to use gravel than this. If it is possible

There are many different brands of good cement on the market and the man using concrete brand but the selection of the aggregate depends mainly on the farmer himself. The material is often at hand but it must be prepared for use. Most of the failures in concrete work are caused by poor aggregates, and if the farmer would
succeed in concrete work he must use care in their selection.

CHAS. L. PITTS.

## Free Drainage Surveys.

Have you a field on your place that is too and make and sour'? Drainage will reclaim Drainage does four things. First it removes the surplus water and makes it possible to cultivate and seed about three weeks earlier in the spring than on the same land when undrained. Secondly it makes the land from ten to fifteen degrees
wariner than if not drained, and this warmth germinates the seed properly and gives a good down to the roots of the plants, which is necessary for satisfactory growth. Fourthly, it makes the soil more porous, and this in turn causes the soil to store up more water for the use of the
crous in time of drouth. Frequently the increase of crop in one year pays for the drainage, and seldom or never does it take longer than three to 100 per cent. per annum on the money inDepary ment of Physics of the Ontario Agricultura Colueve. will assist you on application. They will
mak. you a complete survey of the area to be draind, or run a single line of drain, and when
done Tirnish you with a finished map showing loca iurnish you with a finished map drains, grades, sizes of tile, etc.-detallit guide for the thorough drainage of
land in question. No charge is made for services of the drainage advisers, nor for
mapl, only the applicant pays the travelling penses in connection with his survey, amounting
usually to not more than a couple of dollars. Drop a card to the Department of Physics,
Guelph for the regular application form.

## A Cement-Roofed Silo.

Having noticed considerable lately in you paper relating to silos and silo construction, I
herewith send you a snapshot of one of our silos erected during the summer of 1912 . It is the graval from concrete, roof and all. We used selves, drawing the gravel as we used it or least not more than three or four loads at an single time. By so doing the gravel was always that to the platform. We used wood forms silo at another barn five years aso in indide dimensions of this silo are 13 feet by 41 feet, the wall is six inches thick, plastered on the inside, and well
whitefwashed on outside with lime and cement. It is reinforced well with wire the foundatio (the vital part in all building) being well below


A Cement-roofed Silo.

the frost line and free froin water. The roof and cupola are well reinforced, and are conto walk around the lower edge to attach the pulley to draw up the blower pipe; pipe enters from roof. Regarding the cost, in the first place we are simply farmers not mechanics or buiders, but I might say we have a "knack, of das 40 barrels of cement at $\$ 1.60$, is $\$ 64.00$. Two young lads aged fourteen and eighteen years recluding hauling of gravel, construction of scaffold nd completion of building, except outside white ten days at a cost last summer) I scaffolded ten days at a cost of say $\$$ inorse to draw up $_{\text {on the inside and used a horscell }}^{\text {on }}$ forms. The material used in scafold was all forms. The material used in sca
old stuff and of not much value.

Labor
Incidentals
Total ......... ............ ......... ................. $\$ 140$
Rural Depopulation: Its Cause and Cure.
Editor "The Farmer's Advocate Much has been written recently, about rural Ontario. In the last twenty years rural Ontario lost over one hundred thousand people, and many have naturally
this depletion.
Many and varied are the reasons given, but it is only by a study of the fundamental causes there are fundamental causes there can be no doubt. For the fact is that rurai depopulation is not confined to Eastern Canada, but is taking
;lace in such diverse countries as Great Britain, France, Germany, Belgium,-thickly settled coun-tries-and also in sparsely populated regions like he United States, Cana of population must have a world-wide movenient of population, must have
tremendous forces back of it. The nature of tremendous forces back of is not obscure, and can be deterthese forces is not obscure, and can be deter-
mined readily enough hy a study of our own con-

Ontario for each year from 1872 to 1911. From that table we see that the year 1886 is the highwater mark for rural population in Ontario. Previous to that year it steadily
from 1886 onwards it has declined
What causes mark the year 1886 as the turning point in the tide of rural population in this province ? Simply these two : First, the general adoption of labor-saving farm machinery about this time; and second, the completion of the horse-fork, the sulky-rake, and greatest of all, the self-binder came into general use at this time. True, the binder was used before this, but not until 1883 did the use of twine in place we date the adoption of the silo, creamseparator, hay-loader, potato-digger, manurespreader and farm motor.
The introduction of .labor-saving machinery caused great changes. To quote from the Bureau ly rapid development of machinery in agricultural operations in recent years has in part wrought a revolution in the matter of farm labor. Each of these reapers dispenses with the labor of four
men, at what in former times was the season of men, at what in former tim
the farmer's greatest need.
It was fortunate for the farm laborers who were displaced by the introduction of machinery
that new fields of work were open to them on the plains of the Northwest. Instead of remaining at home in Ontario and attempting to secure employment by the hopeless method of underbidchildren are now using the same kind of mackinery on their own Western farms.
Many of our farmers have gone westward also. But it is important to notice that they have gone chlation the number of farm over 100 acres has steadily increased. The sinall farms show a large decrease. Under the farm machinery regime small farms became uneconomical. The amount of capital required for machinery, horses and buildings was too great for the amount of land lands had to be met. So the small farm had to go, and will only return where the ad
intensive cultivation makes it possible.

Women have left our rural districts in larger are to-day eighty-six thousand fewer women than men. Our farm women have also beon displaced by machinery. Dairying and other work formerly done by women on the farm is now done in factories.- But i while men have had their labor ceived as yet very little benefl from them. Scoarcely two per cent. of Ontario farm homes
ere equipped with a piped water supply, one of ere equipped with a piped water supply, one of
the most necessery things for women's work, With such conditions of living, and wages for
female help on the farm in 1885 at $\$ 1.50$ per female help on the farm in it any wonder that the girls began to leave for the town? To-day femate help is practically unobtainable and male help of the
right sort very scarce. They will remain so unright sort very scarce, They will remain so
The town dweller naturally saddles on the farmer the responsibility for the present high price of food. The truth of the matter is that population has decreased, the farm production of population has decreased, the farm production of ive stock has doubled. The Bureau of Indus tries reports show large increases in numbers of
all classes of live stock excent sheep. It is true all classes of live stock except sheep. It is true
that in recent years the number of milch cow that in recent years the number of milch cow but that is owing to the culling out of the poorer cows. According to Mr. Ruddick, the totai production of milk in Ontario has increase teadily. The average yield of grain is better
now than thirty years ago. Fall wheat shows now than thirty years ago, Falt wheat shows oats two bushels per acre.
The fact is that Ontario farmers have done remarkably well under the changed conditions,
Supply and demand regulate prices. The supply Supply and demand regulate prices. The supply
is larger than formerly, as we have ehown, bui the demand has increased out of all proportion. The reason for high prices lies in. the tremendous urban growth which has taken place
Our immigration is largely responsible for if Taking Canada as a whole, in the last censu pariod we have added, chiefly by immigration nearlv two millions to a population of five and a third millions. Of this two millions of an increase only thirty per cent. has been added to gone to swell urban growth. High prices for food naturally follow, and if the movement con tinues prices must go still higher.
Of course, high prices for farm products will
induce a re-population of our rural districts. In nduce a re-population of our rural districts. In
fact such a movement has alreadv started near our best Ontario markets. Fconomic forces brought about depopulation, and economic force
will now give back the people to a depleted will now give back the people to a depleted
countryside. The forcos which have caused de population have apparently spent their force, and
an increase in the rural population of Ontario

Merit be recgrdeds ratact the anextineensus. .w. But no that: accounto : The increase of our flocke and Therde, and of production per acre is a slow pro-
cess-not the mpifl of day ondof season. The cess-not therpork of a day oriphera season. The mities have proppered at the expense, or the rural
 tarm + Productoris
posiq Agmioultifie is newi coming into its own. In
6. the spinospect of continued high prices for the proructs sof the farm we see its salvation. How igriculture in recent times have never been commensuivabe withittke capital or the work involved. rifarmersilhave not been able to pay wages at With insuffioient help they have city industries apply scientific forming methods Higher to for their produce providing more just remuneration and better conditions of living for the farm--ing population is the only solution. It is the logical outcome of the present situation, and the position it should occupy as the premier industry.

Nature will surely restore the balance of population, but we must, do our part. By organization a just share of the increased profits will go proper education an educated leadership will be maved for rural Mfe. By bettering conditions of living in farm homes we can do more towards populating the countryside than in any other way. Our farm women have struggled against neediess inconvenience too long, with the result in the towns. Better roads will be a big help also As these means of betterment become increas-
ingly effective, rural, social and religious life
will be regenerated of itself. The rural church will become galvanized with new life, and all the old recreational activities of the countryside will return in new forms. These things are of the people themselves; they cannot be created by exaneous aid, however well meant
Regrets on account of the past depopulation
our fair and fertile fields are natural but use less. Depopulation was inevitable. But we can now go forward with the conviction that the pendulum is swinging to the farmer's side, and
that the future will see rural Ontario once more "A land of labor but of sure reward."
Wellington Co. Ont.
S. H. HOPKINS.

## In the Sugar Bush.

When arrangements were being made for tapping the maples and making syrup, I tried to mhould have nothing to do with the enterprise. They could go ahead, go as lar as they liked, but they need not look to me for any help. I I kied found by experience that I could not make money at the work. That was the way $I$
talked, but $I$ guess it is the old case of the moth and the candle the unexpected happeningand in the sugar-making that is in to no inter might just as well have been one of the partners I have to do all the messages to town for them. do most of the chores when there is a rush on, and a couple of times I had to go to the bush to help, out. But as I made no business arenjoyment. I can enjoy the delights of the
sugarsush in the spring, drink all the fresh sap with pancakes. I also get exercise, and as I am entirely without responsibility in the matter I guess I am not faring so badly. After all, the
responsibility for work, seeing that it is done at the right time and done preperly-is really the wearing thing about it. Anyone can do the work, but the managing. requires thought and judgment. Under the present arrangement I am entirely care-free, and even though I ha
help a little I guess I need not complain.

One experience was so much in the pioneer
fashion that $I$ am glad $I$ had it, even though I fashion that I am glad I had it, even though I
grumbled some at the time. The boys wanted to go to a moving picture show in the village, and as might be expected, the performance was given on the one night when an extra ruin of sap made it necessary to boil in after dark, in order to
catch up with the flow of the two hundred and sixty trees that had been tapped. As the boys do not get a chance to see the "movies" very often I agreed to take their place in the woods and help the other partner to finish the boiling in. It was sunset when I started, and after effort to take a short cut I arrived at the base of operations in fairly good condition. It was a Elorious sugar-weather evening, with everything axcept the mud soothing and inspiring. The red woods, and a háze of tender lavender overspread the sky until the stars began to come out. As the sap was almost boiled in and the back-logs ore firing there was very little to do in the way of firing , 躬 we sat around and talked while the
shadows the little ditimes that would spurt up whenever a blazing. Nfict loroke or fell into the fire. While gazing af the glowing coals which seem to have strange fascinedion for all of us, I remembered an ingenious editorial by Arthur Brisbane, in civilization could be traced back to a group of savages sitting around a fire that had perhaps been started by a flash of lightining. The first
step towards civilization began when one of these step towards civilization began when one of these
savages hit on the bright Ides of throwing stick is on the fre so as to keep it burning. If 1 am not mistaken he reasoned that the one who threw on the stick was probably a woman, and chat she did it because she wanted to keep the an excellent argument in favor of women's suffrage by showing that as the women took care of the children and cooked the meals they were
the natural home-makers. They would be the first to realize the importance of fire, and they helter it. In this wayy men to build huts to as the women discovered the uses to which fires could be put the men took to metal-working and
puffed out their chests and felt important. He showed that from chests and felt important. He plication to the needs of humanity all the apand sciences were developed, and he gave the whole eredit to the women and then asked in
thunder tones why they should not be allowed to thunder tones why they should not be allowed to
vote. It was a very pretty argument, and as I reviewed it by the fire in the sugar-bush $I$ echoed his question.

Along about nine o'clock it was found that the syrup was boiled in as nearly as we dared to really an old-fashioned potash kettle suspended by a logging chain-was hung from an oldfashioned swing pole, there was no trouble lift-
ing it off the fire. Our trouhiles until about air aur trous did not begin dipped into a couple of pails. Then we Tooked
around and found that we were hemmed in by but with our eyes blinded by the fre-light the arkness among the trees seemed impenetra lantern. The house to which the syrup was the e taken was threequarters of a mile ap was to at least half of the distance was through wod and a slashing. Still, we were both too much accustomed to the woods to be stumped by miso rdinary a difficulty. We got a bundie of homedry maple splinters from a tree thst had be would make a.torch. But how? There was string, strap or rope within half a mile. as the Irishman said, "a man niver knows what he can do till he's druv to it." After making everal vain attempts to tie the bundle with my overalls were separate, and I tool one. them and knotted it around one end of oi bundle of maple. Then we thrust the splinters into the fire and soon had a blaze that gave as this torch I took up one pail of syrup and the other man took the other. We started out hope ully but soon we were in trouble. Before realzing where wo were going we were in a tangle brush-heaps fallen trees that neither of us could remember having seen in the day time. and after some difficulty menaged to locate the North Star which somehow seemed to be in the south. As a matter of fact we had got turned resh start and keeping one eye cocked towarde the North Star we tried again. But there were fallen trees, cradle: holes, swamps, thickets, or prickly ash and brush-heaps everywhere. I didn't Canada, and yet in the day-time it seemed in all an ordi, and thin believe that before we reached the line fence we stumbled on every obstruction in those woode The line fence gave us our bearings again, and after trimming the torch, which threatened to go ine for our destination: But before a sing very ar. we landed in a corn-field that was ankle deep with the stickiest mud I had met with thie year. But we at least knew where we were, and the stars could be seen more readily than when
we were in the woods. Finally, after climbing two wire fences and mushing through a couple io? swampy spots in a pasture field we reached the road and the rest was easy. After delivering the syrup without spilling a drop I started on walk of another three-quarters of a mile to get did not expect. any difficulty, but the worst proved to be ahead of me. I forgot that part of that road is the worst piece of road in the wauntry. When I reached it I found that it was like the piece described by a traveling auto three miles of mud. I mean it was three miles wide. It was deeper than that." As the ditches were flooded I had to keep to the middile Every time I lifted my feet I expected to hear the Chinamen call up through the holes I was leaving that I was taking away the foundations of their houses. When I got through it I pulled myself to the wire fence and scraped off a heap of mud that will stand there for many a day as a monument of my spring waik. Apter that I haven't had such an appetite slince I used

People's Banks in the Province of Quebec. It has become the fashion in certain quartors
to scoff at the ability of farmers to do anything for themselves. They are lectured on all sides
because of alleged wasteful methods of farming; and yet it is safe to say that there are hundreds or farmers throughout the province who could give instruction in turn to many so-called experts. They have been discouraged by large commiss, to merchants from attempting, by co-operation, all these things, but for some strange reason the farmer cannot. It is refreshing, therefore, to turn to at least one shining example of successtul co-operation by the people, and to note the ox traordinary results secured by the farmers has
Quebec in co-operative banking. And what has been accomplished there can be duplicated by the farmers of. Ontario. Let me say here that the
facts and figures quoted in these articles may be facts and figures quoted in these articles heen so-
regarded as authoritative, as they have her cured directly from Mr. Desjardins, the man to whom credit is due for inaugurating this work First of all may I be permitted to answer
briefly those critics who point to the decline in interest in the Grange and the Patrons of in-
dustry as an evidence of the inability of the farmers of this province to co-operate for their


MARCH 26, 1914
THE FARMER'S ADVOCATE
simple and clear. These institutions accomplishpected of them. They broke down the old sys pected of them. Theor and heavy interest rates, at the country stores; and having accomplished this, their chief work was done. Because these organ-
izations are no longer active does not at all imply izations are no longer active does not at all imply, that co-operation is a spent forcto.
co-operation was never. so strong among the farmers of this province as it is to-day; and it is making its force felt in many directions. And in no part of the economic field is co-operation banking.
It is a well-known fact that in many cases, farmers are paying two prices for implaments and
hotisehold goods because of the lack of ready moniey. It seams so easy to accept a farm
implement, or a sowing machine for the house on the instalment plan. What the buyer generathy overlooks is the excessive price actually paid, This heovy price is accounted for in three
ways: the interest on the money invested, the ways: the interest on the money invested, the
risk run by the eeller, and the agent's commission. Now, any siafe method by which a farmer, under these conditions, can secure ready money at a reasonable rate of interest, would be an
undisguised blessing. That method has beon undiigguised blessing. That method has been worked out in Quebec by Alphonse Desjardins,
tormerly a journalist by profession; but at present holding a post in the House of Commons, at Ottawa.
It was necessary to devise some plan to meet
the conditions I have mentioned, because the Canadian chartered banks simply do not touch cladly accept deposits from farmers; they banks. loans on two-name paper for a short periodthirty', sixty or ninety dayss; but they do not adany way that will put that money in a fixed form of investment on the farm. This is neither to the bank's credit nor to their discredit; they
simply cammot or will not engage in that kind of business. But the Ontario farmer-and especially the farmer who is just making his way-needs,
above all else, didvances of the type that has been described.
Mr. Desjardins saw the need, and attempter to meet it by establishing a network of People's had faith in the practical possibilities of co operation; he had confidence in the capacity of the people to manage institutions of their own. He had an idea that if there was money in bank-
ing for the rich, there must also be something in ing for the rich, there must also be something in it for the poor. Believing these things he assoc-
iated with himself a few friends, and in December 1900 , in his own house at Levis." Mr. Desjardins, 'with the help of his capable wife, was at once general manager, paying and reeeiving teller, and accoun-
tant. The success of the -plan at once justified he venture
In the brief period of six weeks the Bank had of its operation fifty loans were made, amounting to a grand total of $\$ 3,700$. From this small beginning the business of the bank has grown to
phenomenal size. The Levis Bank-the parent inphenomenal size. The Levis Bank-the parent in-ettution-had at the end of January, 1914, total assets of $\$ 266,550$. Since its establishment it
has loaned a total sum of $\$ 1,262,776$; and what is equally remarkable there has not been a cent
lost. These banks have been established all through the Province of Quebec. At the end o 1913 there were 141 banks of this type in Canada, of which 122 were in Quebec and 19 in French-
apeaking communities in Ontario. membership was 65,700 . The movement has also spread among the French in Massachusetts and
New Hampshire there being 23 institutions loated in these staetes being 20 instratized and started in their career by Mr. Desjardins-truly remarkable man It should be made clear, at this point, that
when these banks were first organized, there was no Dominion or Provincial law under which they might operate. It was not until the passing, in 1906, of the Quebec Syndicates Act that they were given a legal status. Thus, for six years But during these years, Mr. Desiardins was test, ing the soundness and the efficiency of his Levis organization, with the view of securing a perfect ding model for other districts; As a result during this pushiod, establishing only two other He wished first of all to establish the practicability of his plan beyond the shadow of
doubt. When at length the Syndicates Ac gave his hanks legal standing, he was ready to
proceed. The act in question had laid down rules proceed. The act in question had laid down rules
and revulations for the establishment of co-oper active societies for production, consumption and co-oppative bank could operate was limited to the electoral district in which the institution was
locatel. Such a district is wide enough to pro-
the people out of touch with too wide to place liability of members of the association was
limited held. The next year a Bill the shares which each Parliament to provide similar institutions for the whole of Canada. The measure failed of passing the Senate by one vote. But without future to enact legislation covering in the noar in all its aspects. at the present session, will deal with this matter. In the next article I shall describe fully-and I hope, clearly-just how these institutions carry on their work.
Kingstoh,
Ont.

## THE DAIRY.

## The Efficiency of the Dairy Cow.

 ciency of the machinery of cthe dairy cow, is there any wonder that dairy cattle are maintained on steers are relegated to the cheaper lands. At the Missouri Experimental Station. Trowbridge, analyzed the entire body of a 1,250 -pound fat steer. In the same time at the same station aHolstein cow gave in one year 18,405 pounds of milk. The analysis of the entire body of the steer and of the milk given by the cow in one year are contained in the following table


Lessnessock Forest King.
Senior and grand champion Avrshire bull at the National Live-atoek Show in roperty of A.
Corher, ont.

In the steer's body there were about 548 pounds of dry matter, and this included horns, hoofs, hair, bone and the flesh of the animal whereas in the one year the cow produced 2,218 pounds of dry matter, which was wholly suitable for human food. During that time she produced enough protein to build up the mineral matter enough for the skeletons of three besides 920 pounds of milk sugar.
It bas also been learned that a fattening ox, when making the ordinary fat gain of 15 pound stances to the extent of 1.13 pounds, and this is mostly in the form of water-free, lean meat, in the same time the cow producing 30 pounds of milk daily gives up 7.67 pounds of casein and substances. During the time the ox is laying on 9.53 pounds of fat the cow puts 7.35 pounds of fat in the pail. In addition to this she secretes
9.67 pounds of milk sugar, for which there is no equivalent substance produced by the ox. Changing this sugar to its fat equivalent, the equivalent than the ox. During that time the ox stores .22 pounds of ash or mineral matter mostly in his bones, while the cow puts into the
pail 1.57 pounds of ash or over six times as Henry, in his "Feeds and Feeding," comments
on the wonderful efficiency of the dairy com se further experiments it remarkable tests, From further experiments it has been shown that a food she consumes to build up ber body, $30 \%$ in the work of converting the food into milk and neariy $2 \pi \%$ finally appears as milk. This places the dairs cow/ /ahead of man or machine for p .
ducing energy from amount of food consumed ducing energy from amount or food consum, of the fuel value of his food as external work, the best steam engines have about the same efficiency while the average engine shows below $10 \%$. Gasoline engines range in efflctency fromi 18 to
$25 \%$. Thus the dairy cow proves herself. to be pro-minently the economic producer of energy and human food.

## Huntingdon Dairy Association:

The Thirty-second annual convention of the above association was held at Hunttrigdon, Que. on Friday, March 13, 1914. In opening tho sessions the President, Robt. Ness, Howick, Que., the Association was organt in agriculure , virce aigo, and considered guch of the progross, so evident in the district es due to the worle and uence of the assoclation.
Iso The improvements made in the district were field, who trem by J. A. Robb, M.P., of Valleythe fact that the creamery and oheesery had given place to the production of milk and cream market and advised farmers to meet the changed conditions. He also warned dairymen to heware of the various feeds put on the markee, that they did. not contain as large a percentage of feeding value as grain feeds that could be purchassd fo

Prof. A. R. Ness, of Macdonald Colloge, gave
 in the feeding of roots in conjunction with silage. These
experiments showed where a dally ra tion of silage been reduced 25 per cent, and the
amount made up of roote and that the
mill flow creased 5 per cent.
Where the silage ration ha d been re-
duced 50 per cent of roots added, the milk flow had in-
creased 8 , per cent.
Where the pilag
 and roots added to
make up the differ-
ence the fincrease
w a s only 4 cent. only \& pewing that of equal portions of
silage ind roots gilage tho Dest rot
sultw. Alio comthe growing chowed the average 16 , and of roots 80 to 86 , and the growing cosi 16, and of roote 80 to 86 , and the growing cost
per ton of roots was $\$ 1.85$ and of corn $\$ 1.80$ per ton. He,advised farmers to grow more roots the cost of production by increasing the milk fow. He also recommended the feeding of smatl was fed. John Fixter, of Ottawa, spoke briefly on clover growing, and advised farmers to sow rom 10 to 14 lbs . of red clover per acre. This sowing would give a yield of at least a ton of hay more per acre over a sowing of 4 to 5 lbs. cultivation to increase the yield per acre, 4-year rotation of crop, of selecting only choice seed corn for planting, the putting of manure on orage crops, and the plowing, up of the old pasture or meadow and sowing a mixture of 2 pushel oats, $\frac{1}{2}$ bushel each of peas and vetches, and 10
lbs. red clover per acre. When the grain is about los. red clover per acre. When the grain is about
six inches high then turn in the sto would give rich and abundant pasturage well into the fall months.
Consumption" was the subject of an interosting address by W. F. Stephen, of Huntin.r.don. The speaker pointed out that the successf:al milk proby the city authorities, produced a high-class
milk and reaped a proft in doing so. Ite contrasted the conditions which govern the supply of the city of Ottawa with those of Montreal.
How at the former city the dealers paid a price How at the former city the dealers paid a price
to the producers to encourage the production of a hight-class milk, while Montreal dealors refused to pay the price asked for by prodncers of highgrade milk. price asked for by prodncors of high
Hewed that it cost more, under present conditions, to produce clean milk over
dirty milk; better stables were requited, healthy cows nust be kept, cleanliness had to be exercised on every hand, and all this cost money, mental stations showed that with cows productog an average of 5,000 lbs. milk per year, milk cost to produce from 15 to 17 cents per gallon, and there was little or no profit to the producar unless he had a herd of cows, each producing
from 8,000 to 10,000 pounds of milk per year from 8,000 to 10,000 pounds
and fed on economical rations.
Dairy Division, ottawa, gave an interesting talk on co-operative cow testing work as done from record centres. He illustrated his address by charts showing contrasts between the best and poorest cows in some of these centres. Some
cows had produced 9 .boxes of butter or 503 hhs . fat in onelseason, while others had only produced 2 boxes or 110 lbs. fat. Last year he and bis
staff had made 86,000 tests. He graded all cows into three classes, profitable, paying their way and unprofitab

## Cheese Chat.

Editor 'The Farmer's Advocate
The time is approaching when the cheese factories will awaken from their long winter's sleep presses, etc., will need a thorough overhauling. The vats particularly need carefinl attention to see that there are no leaks, that the woodwork
where rotted is repaired, as decaying woodwork where rotted is repaired, as decaying woodwork around a vat of milk gives off Lavors that are there is always the danger of the vat springing a leak, or breaking down some morning when the cheesemaker is the very busiest-probably on a
Monday morning during a rush of milk. If the pans were not painted on the underside last fall, and the presses, scales, and if possible the whole inside of the factory (outside too if a wooden building) should receive a coat of paint to
freshen and brighten the appearance, kill mould If the steel hoops are rusty, they should be with rusty spots. These spots always look bad on cheese, änd indicate a careless maker
The floors, gutter, trap and drain should be
carefully inspected. If a $a$ wooden floor, it is sure to need some repairs, but a factoryman should carefully consider whether it would not be better put in cement rather the old wooden floor and terial on an insanitary wooden floor. In soone
cases these woodin floors are two or three feet cases these wooden floors are two or three feet
above the ground, and the space will have to be filled in with, stones or dirt, making it some-
what expensive and also making conditions favorable for cracking of the cement floor; hence as a
rule, it will be cheaper and better to lower the cement foor to about six or eight inches above cinders or gravel on the graded ground. The cement should be faced up on the foundation for a stone or cement foundation should be put under the building, Joining the floor to it. As a
rule if this is done properly there wiil be no need for digging a trench for the foundation in
order to get the wall below frost line. This will lessen the expense considerally, and those who have tried it say it works all ripht. makers how to make cheose, as they probably
know far more about the practical
cheoperations of manufacture than does the writer. But
chen there is one point on which he may venture to
offer a surgisestion. So far as we are able to
discenn the simns of the times it lo offer a suggestion. So far as we are able to
discern the sions of the times, it looks as if
wo should he wiso in caterine more and more to we shoult he wise in catering y more and more to
our Home Trade. particularly the Western Can-
ada market, and possibly, in fact probably, also
to the mmerican market. In the past we have to the American market. In the prost we have
to aten atiention mannet exclusively to the wants
of the Enclish and Scoth trase, as interpreted
of



make a pound of cheese steadily rising. Tnstead pound for twelve"; that is, whereas formerly manufacturers used to guarantee to make one now find it is taking, in some cases, nearly twelve pounds of milk to make a pound of ckeese. There are various causes for this, among which is the bad system of paying all
patrons the same price per 100 pounds milk, repatrons the same price per 100 pounds milk, re
gardless of its cheese-producing properties, which garduess of its cheese-producing properties, which
naturally induced patrons to breed and milk cows that gave a large flow of milk regardiess of its composition, but another cause, is the methods adopted by cheesemakers to meet the de safe investment for money-in other words, for what may be called a speculative cheese, lacking a better term.
Personally the writer has never favored this kind of a choese. He believes that the consuming public does not want as "bony," hard, dry
cheose. Plasticity mellowness, silkiness etc., in cheese is brought about by or through the presence or action of three things-presence of moisture, presence of a proper degree of milk-fat, and a change of the insoluble casein in new cheese,
to a soluble, plastic, mellow form, as is found in to a soluble
old cheese.
the mellow person who likes new cheese flavor fat and moisture is obtained by the presence of contains in solution, valuable food material such as albumin, sugar and mineral salts, it is not adulteration to retain as much moisture as possimaterially from butter, the water of which is added, extraneous, foreign, and contains practically no food material. However, if a cheese contain too much moisture, say above 37 per
cent., the conditions are favorable for abnormal fermentations and the cheese are likely to spoil before they are consumed. To guard against this the milk should be in as nearly perrect con-
dition as possible, and the cheese ${ }^{\text {s should }}$ be dition as possible, and the cheese should be pending upon the rennet, which is the natural agent for cheese ripening, rather than upon other ferments for ripening, which are not easily controlled. For this season we would recommend the use of a larger amount of rennet than is
commonly advised, less stirring of the curd, and less salt, all of which are favorable for retaining moisture in cheese, and this will result in smaller quantity of milk required to make a pound of cheese, and at the same time will prothe Home Trade
It looks, therefore, as if our cheesemakers will need, in the very near future, if not during
the season of 1914, to make two types or classes of cheese-one for the Foreign or Export Trade and one for Home and American markets. This will
make it somewhat difficult for the men in make $\frac{1 t}{}$ somewhat dififcult for the men in fac
tories who may not know to which market their cheese will be shipped, but it would seem as if it would be better for certain factories to cater ing, but for of trade and others to the remain fusion until matters adjust themselves to the new conditions. H. H. DEAN

## HORTICULTURE

What Spray Mixtures Shall We Use in 1914 ?
Editor "The Farmar's Advocato";
I have been asked several times what spray mixtures I should recommend for fruit trees this
coming season. The following in my opinion are the best:
For the dormant soray lime-sulphur. either Scale in the orchard, the commercial should not
be used . weaker than about 1 gal. diluted to 8 or a specific grovity reading on the hydrometer of
1.032 to 1.035 . Weaker solutions often fail to give good results. If there isin no scale, the wash
may be diluted 1 gatlon to 9 or 12 , the latter
if there ioun if there is no Oyster Shell Scale. On peaches,
this should be applied early before the buds have any more than berun to swell, hut on apples and
pears it mav be anolier anv time. from say two or three weeks before the buds burst right up to
the time they are burstinc. On plums and
chorries it is better postponed until For the huds burst.
Fecond application on apples and pears which should be iust before the blossoms
lite in to open. the earliest varieties being sprayed
tiras either limesulphur
paste
poison.
To prevent Apple scab, this aplice hould be done very thoroughiy and as near thic lime advocated as possible. Many tend to over such a bad season or this spraying, but after the greatest care should be taken this seasison.
The second application for plums and chars should be in about a weok after the blossom have fallen or as soon as the fruit, as well set The same mixtures should be used as ior applea but in the case of Japanese plums, and possibit sweek c .
If peackes receive a second application of past 40 gallons of water should be used when the truit aro formed and about one-third of an inch in size. This is to destroy Plum Curculio on the peeich The third application. for apples arod peare should be, especiany in the case of apples, as have fallen, beginning with the cearliest therioms By this time the beeg will have almost varietie ed the trees and gone to other Cowers. For thit application it is not advisable to use Bordean mixture for these iruits as it orten causes mever. usseting, instead I prefer limesulphur of the is equivalent to one gallon of the gravity whic Iuted to from 35 to 40 galloms. To every 40 gallons of this diluted misture two pounds of the paste arsenate of lead should be used. More than this is not necessary but does no harm
This is the great application for Codling Moth
and Apple Scab and the trees carmot be too thor oughly and promptly sprayed
For cherries and plums the third applient should be about two weeks afiter the application the same mixtures as for the secomd may be used. If the weather in about tem days aster the
third application is cold, dark and wet it will ee absolutely necessary to give and wet it win tion for apples and peors with the fourth appher as for the third othars with the same noixtura tack of Apple Scab especially in varieties Snow and McIntosh. If the weather homere is dry and warm there is no need of this applit cation except in the far eastern part of the prov ince where 1 l should arways be kiven.
Cherries should receive a fourth application the truil is ofe mixture or Bordeaux as soon as are inclined to rot should be sprat. Plums that possible without danger of staining the fruit for market, either limo-sulphur or Bordeaux bein used. Peaches may receive an application of the fter ed sel-boiled hae-sulphur about one mont for methot or bulletin 198. Towards the end of August or in early Sepxtra cold, wet weather sometimes makes a extra application necessary to keep off lato at should use the same mixtures as for the third application.
the a it will be noticed that Thave the powder forms of arsenate of lead. I think that soluble sulphur will prove satisfactory against San Jose Scale; it gave me good results be better to test it further before strongly recom. be better to test it further before strongly recom-
mending it. As a summer wash II should adviso very grower to be very careful in using it with burning last year frome were not many cases ot sure that under different weather conditions it may not cause serious injury. Therefore, my
advice would be to use it only in an experimental way. I doubt very much whether it will ever prove to be nearly as safe as lime-sulphur or Bordeaux mixture. It is a soda-sulphur compound, not a lime-sulphur. Further study' hy when arsenate the reactions that take plo when arsenate of lead is added, to it may help to
supplement the knowledge we shall soon have obtained as to its safety and efficiency I do not find that this wash will kill aphids as claimed by many of its advocates.
some recent experiments in or arsenate of lead to show that it will be necessary to test these stitute for the paste form. The claim that they
stay up in suspension form up in suspension much better than the paste
not seem to be justified either when mived alone in water or with limesulphur.
Morsover, the sticking qualitites were seen to be not quite so good as those of the paste forms, The particles are not quite so small as in the paste form, at least in three brands examined. The greater convenience however, in using, ship-
ping and storing justifies their being tested of a small scale by fruitgrowers.
for grapes and potatoes Bordeaux mixture shouid
always be used instead of limesulphur. For potato beetles most men will get better results from
Paris Green than arsenate of lead. From one to two pounds of Paris green should be used to every to gallons of Bordeaux for these

Note: The Spray Calendar will appear next week,

## FARM BULLETIN

## To Our Advertisers.

It would facilitate matters greatly in this office if our advertisers would make it a practice in sending in their advertisements to keep the advertisement copy entirely separate from other eeparate sheet. Also, we again desire to draw our advertisers' attention to the fact that changes of advertisements. reaching the office at
least eight days in advance of the date of issue of the paper in whick it is desired that they
should appear are sure of insertion without deshoul.

## Our Amazing Railway Situation-=-By Peter McArthur.

For the past hour I have been trying to lo-
cate an old Scotch song-it may be:one of Burns -but I cannot find it. I am sorry, for it has a
refrain that might well be sung by everyone in Canada just now-

Such a parcel of rogues in a nation.
If I could find it I would write new verses for it that would make it apply to the present situation in Ottawa. Did you ever see the like of
it? The papers on both sides are so hysterical, that it is practically impossible to get at the real facts. Both political parties have so much to conceal, that they are >afraid to : be definite about anything, for fear the awful truth may lying so fast that one does not know what to - if the Liberals will llow the C ive suppressed, to go through with out opposition-and that sort of talk. Politicians are changing their positions so rapidly, and so oten that the news editor of a leading paper my desk for a day tical party I belong to." But there is one politanding fact that we may all look at and meditate upon. Our real rulers-the railway corporthem and get some idea of their power. As early as I can figure it out, the Canadian North omplete its needs a lot of money, with which to opposed to this because it would like to see a Porced sale of the Canadian Northern that would nable it to take over all the desirable parts o been scotched by the Grand Trunk Pacific has and if its contract with the Government could be broken, the C.P.R. might come in for some more valuable pickings. But what about the people o Canada who have paid for all these railways-
paid many times what it cost to build them? ailway politics is over they will know on about what is going on and be in the humor to
put a stop to this kind of plundering. Railway building in Canada has given us a crop of mi their millions is the wonder of the world and all the country have come out of the resources of was a scandal about the building of the Canadian the Grand Trunk Pacific and there are indication of a scandal ahout the financing of the Canadian Let us deal first with the Canadian Northern whose request for government aid has brought
matters to a crisis. This road is practically Kwned by MacKenzie \& Mann-now Sir William agly enternrising men have succeeded in building large nart of a transcontinental railway by They have been dealt with liberally but bonds. seems to be no end to their needs. Because they have been able to pledge the credit of Canada to push their railroad building. Between bonuses and guarantees and land grants, they have heen
aided tin the extent of over two hundred millions
and nous and nows they are asking for another guarantee ously istimated, at from thirty to fifty millions
of dollars. No wonder that our representatives
in Parliament are "becoming alarmed. Why is so Much money needed and where is it all going? denies that any of the money raised in this way is being used to finance other enterprises. But some people are becoming curious to know just where
the money is coming from that is used in their the money is coming from that is used in their Northern they let contracts to themselves as railway builders, presumably at a very fair profit. What becomes of their earnings? Are thev being used to push the construction of the railroad of which they own all the common stock or are they
diverted to other uses? This question is justified by the magnitude of their other enterprises, Sir William, at least, is deeply interested in railway
properties in Mexico and South America. The properties in Mexico and South America, The and Montreal. Some time ago a lawsuit by a a new process ef making steel brought out the fact that Sir William MacKenzie was the purchaser. A similar suit about the purchase aind re-organization of some breweries discovered the same financier at the helm. A couple of years
ago the whaling industry of the North Pacific was ago the whaling industry of the North Pacific was appliances of the trade. Shortly afterwards it transpired that the purchasers were MacKenzie \& Mann. It is said that they are interested in both country. The names of the new knights appear on the directorates of trust companies and cor porations in which they are presumably interest ed. In short, their interests spread into almost every department of Canadian business. As the people of Canada are enabling them to build the Canadian Northern they surely have a right to
ask whether all these activities are made possible by undue profits from the work of building the Canadian Northern Railway. A full and frank answer to this question is due from Mac-
Kenzie \& Mann, before they are granted further Kenz
Probably' no nation in all the world has been sa extravagant in the matter of railroad building
as Canada. Up to the present we have given to our railways: Cash subsidies, Dominion, Provincial and Municipal $\$ 217,800,000$; Bonds guaran teed, Dominion and Provincial \$275,000,000, Land grants, $55,000,000$ acres at $\$ 5$ per acre
$\$ 275,000,000$; Finished line given to C.P.R. Co \$275,000.000; Finished line given to C.P.R. Co $\$ 130,200,000 ;-$ Total, $\$ 935,000,000$. This is more than $\$ 37,000$ per mile for every mile of railwav in cost of construction." Besides cash bonuses the C.P.R. Was given land grants that amount to an
Its promoters made millions and it revenues are now said to be greater than that of the covernment. The people whom it is supposed
to sorve are groaning under its exactions and firhting its rate charges by every means in thei nower. Tt was found necessary to appoint a
Railway Commission to make it and other railwavs aive the people anything like fair treat sav the least, to rive anv effective relief. A al monarch in the dark ages ever had such power
has over the business and property of the peopl of the country it serves-all citizens of the boast ed free country of Canada. In the case of the
Grand Trunk Pacific it is alleged in the Conser Grand Trunk Pacific it is alleged in the Conser-
vative press that forty millions of dollars were
wasted. The evidence is, said to be at hand al though it has not been published as yet in such the public. And now the Cainadian Northern; after receiving lavish aid is asking for more: That railroad building is profitable is beyond question. If an earthquake were to shake:up our chief cities, millionaires would tumble from the head office. And still they maintain at the seats of the Federal and various provincial governments are constanhly striving to infiuence legislation in their-fayor, It is alleged with more than a suspicion of truth
that these great torporations have placed both political parties under obligations to the bath contributions to campaign funds. The fect that they are the greaitest beneficiaries by special legislation, points to them as the logical providers of such funds. In any case, the confusion they are causing famong our legislators in Ottawa power over them than is good for the country. yIt is bligh time that the cipeople understood: clearly just, what our rallway extravagance meand to every citizen. No matter who builds the rall is pleced on the is placed on the shoulders of the people. The common stock must all be paid by freight and transportation charges taken from our pockets: If the building of the railway has been wasteftal the burden is increased and the wastefulness
causes a loss to everybody. except the contractors causes a loss to everybody. except the contractors when the people of Canada should insist on a careful government supervision of all money speni on railway building, so that they mayget fili rates from the railway when it begins to operate.
Government ownership may be a step too far in advance, but it is the logical outcome of the sic uation if matters become too difficult. In the meantime, there is urgent need of government mupport or radial railways that would handle much of the local traffic and so curb the greed
of our present railway system. But these are of our present railway systers that need to be dealt with separately, in future articles.

Those who urge that MacKenzie \& Mann should be granted the bond guarantee they ask at the present time, point to the necessity of completing this great indertalang on which so
muich money has been spent. If the work were stopped, many other institutions might be embarrassed for these enterprising men have had access to the savings of the people in the banks,
as well as to the credit of the country. It is as well as to the credit of the country, It is pointed out that in no case where the bonds of
the company have been guaranteed has any govermment been forced to assume the obligations. This is the same as if a farmer were to boast friends he had never been called upon to pay one and that he thought the practice a saie one. I have no doubt that many readers of "The man's notes, avole" are opposed to backing any theif representatlives in Parliament to back the notes of Mackenzie \& Mann for millions. That
is exactly what-it amounts to. If the present is exactly what it amounts to. If the presen deal goes through, every farmer will be backing
the notes of these men for at least the price of a good cow, though they might deoline to go on their notes if they met them at a spring sale and were asked personally to back them. Whatever you may think of this, you will surely admitythat,
if this new guarantee is granted, the gentlemien if this new guarantee is granted, the gentroen who are being favored owe it the money they have had has been used-to the last dollar. If anyone is making undue profits we should know about it, for there will be interest and dividends to be paid on those profits for all time, when the freight rates are arranged. The time has come for the govern the credit of the country and the rights of the people. You owe it to yourself to let your representative in parliamient have your views on the present negotiations.

## An Outlet for Production.

The population of the earth is now computed to be in the vicinity of $1,900,000,000$. The
Bureau of Universal Statistics allots $983,000,000$ to Asia, $484,000,000$ to Europe, 188,000,000 to Africa, $187,000,000$ to America and $57,000,000$ crease in the World's population in the four year previous to 1912 of $140,000,000$ people. It cannot be claimed that production has inincrease of population, over production has developed a demand for certain commodities produced on Canadian soil The wheat crop of North China has been poor for the past two seasons, the Chisese are quickly learning to use in the
manufacture of food stuffs, as well as in the taw
form for table use. At Amoy and Cheloo Vermicelli is manufactured in large quantities and 20 per cent. of the flour imported at those places cosed in the production of this commodity. The Governor of Hong Kong in his report on the ons or 20 per cent, and writes, "This increased ase of flour is evident in the Colony, being notlceable even among the boat population of the and 'fipjacks' boing cooksed and eaten instead of the formerly universal rice.
This increase in population is a strong argument against oper-production ever becoming formdable in the near future. Prices may range low
din)

## "The United Farmers of Ontario" Launched.

on similanched? Scores of smaller vessels built launched. While some had proved too frail sim the tempestuous seas upon which they were forced storms and after recters had weathered the the larger craft was thrust of the diflect ans alipped into the sea with a loud splash, which may cause a large wave to rise and roll on until fow ripples within the harbor, which may vanish before reaching the open water. Modelled after West, the twin-screw flotation of The United Farmers of Ontario and The United Farners' Co operative Company, Gimited, was accomplished Chursh St. Toronto. The the Labor Temple, these two burdens is amalgamated co-operation In other words The United Farmers of Ontario is an association projected to amalgamate all loca larmers organizations in the province, whether Granges, Vegetable Growers', Breeders' Clubs, representing any other branch or branches under one central head, and the joint stock company The United Farmers' Co-operative Company business. In attend to the financial end of the business. In short the former is educative, the
latter is operative.

For years such a central head has been talke tions of agriculturists, and last year a central as sociation, to handle the products a central as was born at a meeting in the Parliament Build itu, lor the but hothing approaching the ma fore been atts gigantic undertaking has ever be During a few weeks past the farmers of Ontario bers and officers of the Dominion Crange men personal canvass of local Granges, some made clubs, tions in the province, and urger that delegates organization of the central body meeting fo literature on the subject was sent. In due tim secretary of the Grange, calling the meeting Which was held last week. In the meantime the as Provisio Grange and four of his neighbor the Legislature, and applied for by-laws to come incorporated with $\$ 10,000$ capital be operate a business with very wide privileges directly connected with the manufacture, pur chase and sale of products necessary to the suc vince. With plans very well laid this Pro deal prepared before the first session a good everything was in readiness to hurry throug matters with great facility, and to the complete atisfaction of the promoters
As one would naturally suppose from the ordinate Granges dominated the gathering. The than those representing other organizationumber nevertheless they were a dominating influence. well-prepared program gave representatives from Poultry Circles, Dairy Companies, Breeders Clubs and Granges opportunity to tell what they knew of co-operation from experience in one or
another of these orgaizations, and the work of another of these organizatinns, and the work of
the Grain Growers on the Prairic was set forth
by Roderick McKenzie, of Winuiper, but when it came to the essential features of organization more of the most successful salustmen and
managers of co-operative organizations could not
have been present to give others the thenefit have been present to give others the benefit of
their experience, and if available to have gainef a place on the Board of the organization. Thee
program also igored the fact that there is at
present a Co-operation and Murto the Cotario Department of Ayriculture, and the swings in an uncertain balance. Their motto is
operation as it has worked out in the Brant operation as it has worked out in the Brant of Oshawd, Ont., and manager of the Oshawa Co-operative Fruit Growers' Association, outline the success of his company. Henry Glendinning T. H. Binnie, Durham, Ont., gave a little history regarding the Chatsworth Marketing Company A.J. Reynolds, Solina, Ont., spoke of the Farmers' Dairy Company of Toronto. Seed corn growing was discussed by T. H. Adams, of Essex Erie Farmers' Association, an organization chief ly concerned in the handling of grass and clover seeds, showed how this organization saved those interested in it $\$ 13,500$ in one year. A. Groh system as it has worke out in Waterlelephon ship. G. A. Brethen of Norwood Ont from his experience in the Belleville Holstein Breeders Club, pointed out a few of the advantages of co - Cie
spirit of co-operation, stated speaking on the true spirit of co-operation, stated that the annual
turnover of co-operative societies amounts to $\$ 17,000,000$; in Germany to $\$ 1,200$ 000,000 , and in Great Britain to $\$ 3,000,000,000$,
W. C. Good, Grand Master of the Domion Grange, pointed out that not only in the sale of toll, but also in the purchase of articles require on the farm. On the word of an implemen agent he stated that it costs as much to sell im
plements as it does to manufacture them.

Jos. Gilbertson, President of the Norfolk Fruit his wife had laid the foundations of and and this great country, but that they do not get the credit for what they have done. We are surlittle of farmers' organizations, but the time is near at hand when all farmers must organize in some way, for in no other manner can the farmer get his due.
great Grain McKenzie, directly connected with the great Grain Growers' movement in the West,
brought greetings from those organizations Since the organization in the West farmers have foceived from three to five cents per bushel more done. Going into the milling business has also as that prevailing for it in Britain. Twine is to one and one-half cents per pound. from one to of lumber $\$ 150$ is saved, and the organization has must entirely satisfactory. Farmers, he said, is the duty of every one of them seriously, and it in the business of the community. Organization is the best means to accomplish this end. There are over 1,200 branch associations in the Western Provinces, each holding regular meetings, and tral association convention. Branch annual centions are used to educate the people, with two results: The development of social conditions, Farmers lose in marketing their goods individual ly, and to get over this drawback organization is of the work helps the commercial side, thus the advantage of the two departments. Farmers
look too much to others, and do not show
prepared by a special committee and on paper looked fairly goocial committee and on put all local organizations
affiliating with The United Farmers must accept and abide by the constitution of the central body. This in itself may be sufficient to
keep mayy of them out, and unless all or prac-
tically all come in the success of the venture
swings in an uncertain balance equal opportunities for all, and their objects to
further the interests of farmers in all branches of
agriculture by fostering mutual understanding en-
tions, promoting social intercourse, disseminating literature, establishing libraries, watching legis and teaching co-operation. providing halls and and teaching co-operation, providing halls and
places for holding meetings, suppressing clase
prejudices, etc. The central association shall prejudices, etc. The central association shall consist of all duly admitted and fully paid
members of branch associations. Delegates members of branch associations. lows, one delegate for each branch, and one fort for every twenty members or major portion of twenty. The annual convention is to be held between wecember first and March first eac membership may be received by paymen and one-half the annual membership fee to the branch associations. Two dollars of this goes to the generai reserve, and $\$ 10$ is to be invested or each membership fee paid to local branches of be forwarded to the central association. Farmer's wives and daughters are admitted as honorary members, and farmer's sons under twenty-one at half the membership fee. A quorum at the annual meeting is to be not less than
five. Ten qualified persons may orge Branch with a President, Vice-President, tary-Treasurer and six Directors, all Branch elpo tlons to be held in Nóvember,
The officers of the Association as elected are: President, E. C. Drury, Simcoe Co.; 1st Vice President, G. A. Brethen, Peterborough Co.; 2nd tors, J. F. Breen, Dufferin Co.; John Service, Northumberland Co.; R. H. Johnson, Victoria Adams, Essex
Toint stock company called the organization, a Co-operative Company, Limited, has an advisory Board of Directors from which the permanent
Board will in all probability be elected, consisto ing of C. W. Gurney, Brant Co.; A. A. Powers,
Darham Co.; E. C. Drury, Simcoe Co.; W. C. Good, Brant Co.; Col. Fraser, Brant Co.; Jas. R. Anderson, P. E. Co.i. A. C. Vance, Lambton Cos Leeds Co.; Geo Carlaw, Northumberland Co. $\mathbf{A}$. Groh; Waterloo Co.; G.. Browniee, Grey Co., and Whitaker, Dundas Co.
The original draft of directors as brought down by the committee contained eleven names, the majority being Grangers. Someone took exp to that of Farmers' Clubs, there being 250 clubs and about 100 local Granges in the Province. To get over the difficulty those engineering operaand to quiet down the objections by tocting two extras from Farmers' Club representatives, and names. About two-tkirds represent seems like other organizations. This scarcely motto of the sister ar atization is and yet the portunities for all." There was also a notice able unwillingness on the part of certain repre doing a succesgful co-operative societies, now to be a successful business, to allow their namee The meetinem to augur well for the organization. the meeting wished, and discussion was somewhat stifiled because of lack of time. Certain parts of the election seemed to be carefully premeditated.
fact during the nominations for the presidency one of the organizations two names were before sion that the committee kiad decided that while the two men were equally capable, one should be
placed at the head of this particular organization the orcanization. The meeting agreed, and they were elected. Now, they may be the best men ositibie and both are extra good men for tend such methods. success does not always farmers present and less by the committee, the

The charter of The United Farmers' Co-operthe most important by-laws. It is a joint stock company with $\$ 10,000$ capital divided into four
hundred twenty-five-dollar shares. Three Direchundred twenty-five-dollar shares. Three Directors retire each year in rotation, but these are
elligible for re-lection. Capital cannot draw eligible for re-election. Capital cannot draw
more than seven per cent. interest. Net profits after providing for interest and reserve fund are portion to "Males or purchases made through the company, Non-shareholders may be entitled to
rebate given to shareholders. One sharerebate given to shareholders. One share-
holder no matter how many shares he holds has only one vote. No voting byl proxy allowed, but only one vote. No voting byl proxy allowed, but may elect one delegate to represent them at ehareholder's meetings, by giving him a signed
sfatement concerning the question or questions to statement conc
be discussed.
Many seemed to think that it would be easier o make a success of this work in Ontario than it was in the West, but in reality it will be more difficult. Ontario farmers are comparatively speaking well off and are not forcea into co-operation as were the grain growers of the West ontario has dozens or branches of agriculture, growing; and Ontario has hundreds of local or ganizations now operating under different constitutions, whereas the Western organizations had that no easy, task confronts them. In fact it that no easy task confronts them. In fact it and thought been devoted to the matter before launching the enterprise. The success or failure of the movement depends upon the attitude of the local organizations, and if the constitution and management should suit only a few of these it
is more than likely that the others may not care to affiliate. A strong association with 400 or 600 members may think twice before they throw down their own, rules, send 50 cents per member up a central of which they know little and give an unknown quantity. On the other hand a an unknown quantity. On the other hand a een low, say 25 cents, may have a struggle to quarters. All these things might well have been considered at more length. The importance of the organization, the magnitude of the work in hand was altogether too colossal to be crowded profitably have been spent and more discussion oncouraged. Besides, such a movement should have been even more representative. More live stock men should have' been present and all ang-
les should have been smoothed off in an ópen representative meeting
The United Farmers of Ontario should grow into a great movement if it gets the support of oo organized. Upon these and upon the open etraighiforward the workings of th depends the success of what we would be pleased to see the greatest movement for the good of the man on the land any part of Canada all" should be sufficient incentive. Let us hope
that it is lived up to.

## Regina Winter Fair.

on March 10th to 13th, 1914, Regina was the curring success, but this year, following up the pace set by Brandon, all records were broken in
attendance and exhibits. Robt Leckie's Regal Sensation went down before The Bruce, the propfocused on this judgment. Which involved the best Clydesdale stallions in Western Canada. The Countess of Moray secured the female champion-
ship for W. H. Bryce, and the Canadian-bred honors were won for him in females by Doune
Lodge Floradora, while R. H. Taber's, The Bruce of Hillcrest, was the best of the home-bred
torses,. There were no championships awarded There were no championship awarded
in the Percheron classes, hut first in aged stal-
lions and in twotyear-olds went

Galbraith on Garou and Hercules; Alex. McLaren won first on three-year-old stallions with his
Kameleon, and R. P. Stanley won first in yearlings with King John.
Among the fat cattle H. L. Emmert defeated J. D. McGregor's Black Rock with the Shorlhorm
heifer, Sittyton Lady 3rd.

## Bringing the Bees from the Cellar

 Moments of perplexity' are at hand when the rom the winter depository and setting them in the yard. The proper time to do this is a conundrum and it will depend much upon the condition of the bees in the fall and the way inwhich they have wintered. If the bees were put which they have wintered. If the bees were put previous day or two they had a successful flight they will; be much better in, the cellar late in the spring than if they were put in the depository under less favorable conditions If the temper-
ature of the cellar has been quite warm or quite cold, the necessity of the bees getting out is in cold, the
creased.
Some apiarists have advocated taking the beee ine and allowing them a clarifying flight on a the cellar again, but the advantage here again s more than counteracted by the loss through labor and those who leave them in the cellar unered themselves ahead in the 'end. When they' are taken from the cellar it should be done as quickly as possible and on a fine day. When they are brought out slowly there is some danger of robbing as the first ones out have acquired some sleepy in this case robbing may take place. In addition those brought out during the latter part of the day may not be ready for their flight until the cool of evening comes on, in which case there night be considerable loss.
It has been the practice of some where open
framed hives were used to remove the cover from the hive and'allow the sun to shine directly upon the bees. Under these circumstances the bees are excited at once to assume their flight and they return again
cold threatens.
When the bees are put out, the temporature should be at least 45 degrees in the shade, and
perhaps as good a time or season of the year by perhaps as good a time or season of the year by the buds of the elm or soft maple. Just when these buds begin to show expansion of the outer parts which have protected them during the winter. In this way, the bees have gotten under waly
before the blossom finally comes out, the brood belore the blossom finally comes out, the brood stronger colony to conduct their business during the special honey flow.
Bees have a remarkable memory for their old ocation, and as nearly as possible the apiarist should endeavor to return them to the stands first be cleaned off and made ready to recelve them. If they are moved to other places, it would be wise to have a slanting boaird placed in front of the hive.

A little water is also necessary in the spring in order that brood rearing may proceed, and i the keeper neglects to provide it, the bees are obliged to take long filghts in order to procure combs will furnish this need, or a very thin syrupl
will supply the need for water and to a certain will supply the need
So long as the bees are quifet in the 'cellar So long as the bees are quiet in the ceper should not be in a hurry, to put them on their summer stands. If they come nut too early, and the spring is unfavorable, the results of a favorable winter

## Advertising Brought Buyers

## Edtor The Farmer's Advocate success of my sale

 as the advertisement brought out the buvers.
## Requeening.

 If the manner of introducing new queens bythe smoke method is successful, it will be one of
the best things that have been difscovered by the best things that have been discovered by
apiarists during recent year. There is some loss connected with any method of introducing queens, and a writer to the Bee Gleanings of when introducing queens by the cage method. This necessitates a rearing of a greeter number of queens or an additional expenditure for
queens to requeen the hives. Beekeepers are bequens to requeen the hives. Beakeepers are be young queens in the yard, and if they are to be
introduced satisfactorily many will grasp this introduced satisfactorily many will grasp thit
method of running in the queens under the smoke method of running in the queens under the smoke
method if it is universally satisfactory. Much will depend, of course, upon the beekeeper who ia adopting the miethod. II the queen is run in and he has not the fortitude and courage to remain. away, but must be constantly lifting the cover of
the hive, the new queen may become irightened and run to some obscure corner of the hive or she may pipe, and the result is that she is almost mayediately balled.
There are a few phases connected with "requeening wilthout dequeening" that our beekeepers must ime and the proper place to run in the new queen. If she is run in at the side there is a possibility that the old queen may be at the opposite side of the hive and a day or two will queen may be filled up with eggs and be under a disadvantage when the final conflict comes. Another circumstance which might militate against the nowly introduced queen is that the old queen may be undergoing a rest preparatory to swarm
ing, and the result is a decided advantage for the ng , and the result is a decided advantage for the cessfully done, the queen is simply run in and the beekeeper looks for the old queen at the mouth
of the hive the next day. She is usually there of the hive the next day. She is usually there
surrounded by two on three workers who are nosrounded by two
a recent meeting of the District Beekeep-
Association at London, Beveral expressed themselves as successful in the operation of requeening under the smoke method, while others of this paper are open to beekeepers. who have had any experience in this connection, and
we know our readers will be glad to read the rewe know our readers will
sult of their experience.

## Notes From Essex.

Editor "The Farmer's Advocate": The exhbition is in and...tive manifest in provisions which are being made throughout the corn-belt to secure the best resulte peathe in producing and curing the resulte possible in producify all appearances the time is approaching when Eastern farmers will purchase with greater confidence the supply of seed required for siliage in dairying sections. If the spirit of co-operation could be more such sections, and responsible membera of "Corn Growers Associations" in Kent and Essox, it would assist in removing the
ing bad soed changing hands.
disconcerted over the asilgnment of a company Who erected or attempted to operate a factory In Chatham last year. The Townehip having advanced a loan of 815,000 , have now a subacure a purchaser. While the land-boom conducted by parious American companies has passed the initial stage of excitement. yet considerable property is exchanging hands at established prices. Some mericans have purClair, paying the sum of 880,000 for the same.
However, with such good inveetments at home However, with such good inveetments at home
many of our beest citizens are being induced to many of our best citizens are belng induced to
venture upon schemes that have no permanency; venture upon schemes that have no permanency:
despite the many warnings given by those who
are in a position to know tive value of such despite the many warnings given by th
are in a position to know the value
propositions, numbers are belng gulled.
compared with the corresponding week
of 1018. Rocelpts of live stock at the City and
Union Stoek-yards tor the past week were light in nearly every class. In the cattle classes the supply was quite equal to the demand, and prices have
very little in the past four weeks.
Butchers'. -Choice, heavy steers sold at
\$8 to $\$ 8.25$, but there were only throe

 86.75 to 87 ; good, $\$ 6.25$ to $8 . .50$;
ium, $\$ 5.75$ to $\$ 6$; choice bulle, $\$ 6.76$

Markets

## Toronto.





System－Saving
The surest way to save is by system．II you deposit a certain amiroutteach week or each month In this baik＇s Savings Depart－ ment you will soon find that you have the means to do some－ thing worth while．You will also find that the habit of thrilt has fostered your spirit of in－

## The Bank of NovaScotia


braiciess of this batis in Merer Canadian Province，ind Rothe Chicom ond rew Tots
to 37.25 ；medium bulls， 36 to $\$ 0.50$ ； Common bulls， 85,75 to 56 ．
Stodkers and Feoders．－Reccipts of feed－ ere were light，but quite equal to the 87 to $\$ 7.25$ modium to good steers，
86.25 ．to $\$ 6.75 ;$ stackera， 500 to 700 ， \＄0．25．to \＄8．75；staekera， 500 to 700 The， 35.75 to $\$ 6.25$ ．
millers and springers have been moder ate，and common to medium milkers and late springers have been slow sale；good to ohoice，fresh milkers and forward apringers still bring good figures，as high Eolistein sprigegers．
Prices rangèd from $\$ 60$ to $\$ 100$ each the bulk going at $\$ 70$ to $\$ 85$ each． Veal Calves．－Choice calves are scarce； In tact，calves or all classes are wanted， at $\$ 10$ to $\$ 11.50$ ；good，$\$ 9$ to $\$ 10$ ； medium，$\$ 7.50$ to $\$ 8.50$ ；common，$\$ 6$ to Sheop and Lambs．－Receipts light，and prices as high as ever．Sheep，ligh
owes，$\$ 6.50$ to $\$ 7.25$ ；heavy ewes， 85.75 to $\$ 8.25$ ；rams，$\$ 5.50$ to $\$ 6.50$ ；heavy lambs， 88.25 to 88.75 ；choice lambs $\$ 9.25$ to 89.75.
Hogs．－Liberal rectipta from the North－ west kept hog prices from soaring．An consignments of Northwest hogs．Selects told at $\$ 9.25$ ted and watered，$\$ 9$ I． 0 o
b．cars，and $\$ 9.50$ weighed off cars，th b．Cars，and 89.50 weighed off cars，
bulk of hogs going at these figures． breadistuffs．
Wheat．－Ontario，No． 2 red，white or
mixed， 97 c ．to 98 c ．，outside；$\$ 1$ ，track，
 993c．，track，bay points；No． 2 northern，
98c．；more at Goderich．
 Toronto；Manitoba，No．2， 42 c．，No． 3 ， 41c．，lake ports．
Rye．－Outside，
 Alde．
Corn $-A m e r i c a n, ~ N o . ~$
a yellow，
itc．，a Barley，－For malting， 54 c ．
feed，43c．to 45c．，outside．
 Mantaba Alour - Prices at Toronto are
First
8.80 patents $\$ 5.30$ ；second patents． $84.80 ;$ in cotton， 100 ．more；strou
bakerss，＇，$\$ 4.60$ ，in jute． Hay．－Baled，car mits lofeed．
bags，track，Torentor shorts，$\$ 28$ to $\$ 25 ;$

Ontario bran，$\$ 22$ tin bages；shorte，$\$ 24 ;$ | Ontario bran， |
| :--- |
| mildalings，$\$ 26:$ |

country produce．
Butter．－Receipts were liberal．and ery solids，28e．to 30c．；store lots， 24 ． to 25 c ．
Eggs．－New－laid，29c．to 300．per dozen， by the case． new，twins， 14 fo．twins， 140
Beans．- Imported，

hand－icked，$\$ 2.25 ;$ Canadians，hand－picked，\＄2．25；primes， | $\$ 2$ per bushel． |
| :--- |
| Poultry， | Poultry．－Receipts principally cold－

storage，which were quoted as follows： storage，which were quoted as ． 1010 ws
Turkeys，21c．to 25e．；geese，18c，to 20．c． ducks，20c．to 220．；chickens，180．to 20e．；hens，14e．to 160 ．
Potetoes．－Car lots or Potattoes．－Car lots or Ontarios，80c．
New Brunswick Delawares， 850 ， New Brunswick Delawares，850．to 900 ．
Honey．－Extracted，9c．per 1b．
hides and skins． No． 1 inspected steers and cows， 13 c c．； city hides，四 13c．；country hides，cured， 13 jc ．；calf skins，per lb．，16e．；lamb
 38c．to 42 ce ；horse hides，No．1，$\$ 2.50$
to $\$ 4.50$ ；tallow，No．1，per 1b．， 5 j c ．

## TORONTO SEED MARKET

 Alaike，No．1，per bushel， 88.50 to $\$ 9$alisike，No．
 to $\$ 8.50$ ；red clover，No． 2 ，$\$ 7.50$ to $\$ 8$ ．

## Montreal．

Live Stock．－There was practically no market last week，Supplies were smal all the way round，and no doubt the oflerings of fancy cattle were being re sold at 8 tc．to to 8 ctc．per llo． 1 b ．fine stock selling around 8c．to 8tc．；good sold at
 cows and bulls ranged from 5c．to：7c por milking cows，and the beet of these
ind ${ }^{\text {sold }}$ up to $\$ 100$ ，while mediums were $\$ 75$ to $\$ 80$ ，and common，$\$ 60$ each．
There was very
little
doing in． lambs，and prices were 5 fk c．to 6 to fc ．for sheep，and $8_{8} \mathrm{c}$ c．to 9 c ．per lib．for lambs．
Caives were in good demand，and the Calves were in good demand，and the
price ranged from $\$ 3$ to $\$ 8$ for common， and up to $\$ 15$ for choice，with some
extra fine stock selling as high ech．The market for hogs was firm in sympathy with advances．which took place
in the Western markets．
Ontario
hogs were $\$ 9.80$ per 100 lbs ，and Manitobas
$\$ 9.50$ per 100 \＄9．50 per 100 lbs．，weighed offl cars． Horses．－Enquiry for horses was fairly
active．Carters are buying for spring． Horses weighing from 1,500 to 1,700
lbs．，sold at $\$ 275$ to $\$ 300$ each；light
 $\$ 225$ to $\$ 275$ each；broken－down，old
animals，$\$ 75$ to $\$ 125$ ，and choicest sad－ each． Poultry．－The market was very frim，
and demand was moderately active．
Turkeys were 22 c ．to 24 c ．per lb．；ducks． Turkeys were 22c．to 24 c ．per li．；ducks，
16c．to 18c．；chickens，19c．to to 21c．；fow 1 16c．to 18c．，and geese，14c．to 16c． or dressed hogs was steady，prices being
13 c．to 132c．per 1b．for fresh - killed，
abattoir－dressed stock．
Smoked meats abeatoir－dressed stock．Smoked meats
steady，medium weight hams，18c．per lo．．．and breaksast bacon at 19c，while
selected Windsor lo．．．and boneless．Windsor at 24 c ．Lar
gold at 14 tc ．to 14 t c ．for pure，and
10tc．to 10．3．c．for compound．
Potatoes．－The market continued firm．
and stock was scarce．Green Mountains
were 8 ．5．to to 9oc．per bag，ex track．in
and

Honey and．Syrup．－There was very lit－
le old syrup offered．Tins of old syrup
sold at 9 c．to to 1oc．per lb．，while syrup
in wood was 7 c ．to 8c．，and maple syurar

Egge－Prices of eggs deolined owing to
the recont mild weather having tartod
the hens laying．Almost everything of－ the hecen laying．Allostt＇arerrthing of－
tered was Canadian stock，and the price of these was 8oc．per dozen．
Butter：－The market for butter held
very frm，and an immediate very frm，and an immediate decline is
litely to take place．Choice ereamery likely to take place．Choice creamery，
29 c ．to 30 c ．per 1b．，wholesale；fine，28c． to 29 c ．，while second grades wore 26 fc ．
to 27 fc ．Dairy butter was＇arm，at to 27 c c．Dairy butter was Arm，at
23c．to 24 c ．per 1b，for Ontarios，and 22c．to 28c．1or Manitobas．
Grain．－Oats steady in price．No． 2 Wester̀n Canada oats were quoted at 44c． lots；No． 8 ，
 corn was quoted at 74c．onterio malt Flour－Thec．to 70c． toba first patent flour was quoted ani－ $\$ 5.60$ per barrel，in bags；seconds being ${ }^{55.10,}$ and strong bakers＇，$\$ 4.90$ ． Om － cario winter－wheat $\$ 4.90$ per barrel tor straight rollers wood． Milleed．－The market for millfeed was steady．Bran sold at $\$ 23$ par ton，and shorts at $\$ 25$ ，in bags，while middllings $\$ 30$ to $\$ 32$ per ton for pure，and $\$ 28$ to \＄29 for mixed．
Hay．－Prices of hay were a shade on the easy，side．No． 1 pressed hay，car lots，Montreal，on track，was $\$ 15$ to
$\$ 16$ per ton， $\$ 14$ to $\$ 15$ ，and No $2 \$ 13$ to $\$ 13$ 50． Seeds．－Merchants were buying hay seed pretty freely，but farmers were still hold－ ing back．Prices were：Timothy，$\$ 10$
to $\$ 11.50$ per 100 libs．，Montreal；red clover， 822 to 824 per 100 bes； alisike， 320 to $\$ 24$ per 100 lbs．
Hides．－The market for hides was un－ changed，and quality poor．Beef hides were 18．，．，14c．and 15c．for Nos．3， 2
and 1 ，and lamb akins were $\$ 1.20$ to and 1, and lamb akins were $\$ 1.20$ to
$\$ 1.25$ each，with horse
hides
ranging trom $\$ 1.7 \mathrm{~F}$ for No．2，to $\$ 2.50$ each for


## Buffalo．

Catue．－Lower trade at Buffalo the past week．Conditions of the beef trade all Packers find their coolers well flled，and a reduced consumption．Trade is gen－ erally bad during Lent，but this year， packers say，that conditions have been the worst for many years past．The selling for more money than the fore－ quarters，appears to have been reversed， at the present time the coarser fore－ a cent to three cents per pound，than the generally accepted better cuts．Th reason is plain．Jewish demand is hold－
ing up the demand for the forequarters as foreign beef cannot come in competi－ tion with it，while the hinds find com－ petition in the Argentine stuff，and be－
sides the retail trade generally for the past few weeks has been on the hand－to－ eral beef situation．The retail butcher is buying less，wants small and cheaper quarters，and is making a hard elfort to
furnish the complaining consumer cheaper cuts．Receipts the past week at Buffalo loads， 35 of which were shipping kind of steers．Several loads of of canadian
steers that month sago and returned to the feed lots
to be finished up price for the week．Nothing in the the
handy butchering \＄8．15，and it was a slow deal on all butchering cattle，at a decline figuring
from 15 c ，to 25 c showed around a steady basis，with good Kinds about a dime lower，some in－be－
tween，hall－fat steers showing as a quarter take－of．After Monday，
the trade was very weak，local demand the trade was Very weak，local demand
calling for very light buys，and there ings of large numbers of workmen bur－ out of employment are heard，and some
authorities are of the opinion that this means nothing very substantial for the
meat trade generally．Some are pre－

April and May，but some sellers are stifl
inclined to believe that real prime cotel will sell to pretty good advantage catile the warmed－up ones are showing weak ness，Receipts for the week reached previous week，and 4,500 head a year
ago． ago．Quotations ：
Heavy steers，good to choice，$\$ 8.5^{\circ} 0$ \＄9．25；heavy steers，medium to good， 88 to $\$ 8.40$ ；butcher steers，good to choice， $\$ 7.75$ to $\$ 8.25$ ；butcher stlers，medium
to good，$\$ 7.25$ to $\$ 7.75$ ；butcher to good， 87.25 to 87.75 ；butcher steers，
common，$\$ 6.75$ to 87 ；best cows， 86.20 to \＄6．75；fair to good cows，\＄5．75 to \＄6；cutter cows，$\$ 4.50$ to $\$ 5$ ；canner cows，$\$ 3.50$ to $\$ 4.25$ ；good to ehoich heifers，$\$ 7$ to $\$ 7.50$ ；fair to good helfers，
$\$ 6.50$ to $\$ 7$ ；light and common $\$ 6.50$ to $\$ 7$ ；light and common，$\$ 5$ to
$\$ 5.50$ ；best stockers and feeders， to $\$ 7.25$ ；fair to good，$\$ 6$ to $\$ 6,50$ ；
 $\$ 5.25$ to $\$ 5.75$ ；bologna bulls，$\$ 6.50$ to \＄7；fat bulls，$\$ 7$ to $\$ 7.50$ ；best milkerre
and springers，$\$ 65$ to $\$ 85$ ；common，$\$ 40$
to $\$ 50$ ． Hog
Hogs．－Hog market held up to a high
level again the past week．At no time of the week did good－weight grades get below $\$ 9.25$ ，and Friday packers paid up
to $\$ 9.40$ ．Pigs the fore week sola down to $\$ 8.90$ to $\$ 9$ ，and the latter part they were jumped up to $\$ 9.25$ to $\$ 9.30$ ；roughs，$\$ 8.25$ to $\$ 8.50$ ；stage， $\$ 7$ to $\$ 7.75$ ．Runs totaled 24,160 －the
past week； 25,120 the previous week past week； 25,120 the
and 23,840 a year ago
Sheep and Lambs．－L
a tumble the past week values took tops down to $\$ 7.85$ ．There was er ro－ action the latter part of the week（Fri－ day），best bringing up to $\$ 8$ to $\$ 8.16$ ．
Cull lambs sold high，compared to tops， ranging from $\$ 7.50$ down．Yearlinge made $\$ 7.25$ during the week，and sheop were firm，choice wethers selling from $\$ 6.25$ to $\$ 6.40$ ，with ewes from $\$ 5.50$ to
$\$ 6$ ．Cull sheep，$\$ 5$ down．Receipts thio past week， 28,200 ；pre
800；year ago， 28,00 ，
Calves．－Values constderably lower the past week．Tops dropped down to 810 ．
and at no time did they sell above $\$ 10.75$ ． Culls，$\$ 8.50$ down；feds，$\$ 4.50$ to $\$ 6$ ． Receipts for the week were 1,850 ，agains 2,100 the previous week，and 2,725 to

## Chicago．

Cattle，－Beeves， 87 to $\$ 9.55$ ；Texne steers，$\$ 7.15$ to $\$ 9.15$ ；stockers and leed
ers，$\$ 6.65$ to $\$ 8.10$ ；cows and heilera $\$ 3.75$ to $\$ 8.50$ ；calves，$\$ 6$ to $\$ 8.75$ ． Hogs．－Light，$\$ 8.65$ ，to $\$ 8.85$ ；mixed，
$\$ 8.60$ to $\$ 8.85$ ；heavy，$\$ 8.40$ to $\$ 8.85$ ．
 rough，$\$ 8.40$ to $\$ 8.50$ ；pigs，$\$ 7$ to $\$ 8.65$
bulk of sales，$\$ 8.75$ to $\$ 8.85$ ． Sheep and Lambs．－Sheep，native，$\$ 4.70$ to $\$ 6.35$ ；yearlings，$\$ 5.80$ to $\$ 7$ ．Lambi

## Gossip．

At the Birmingham Spring Show and March，the highest price received was 425 guineas，for Hon．H．C．Lewis＇Augusta＇n Diamond 2nd，winner of first prize in the
class Four not exceeding twelve months old Macle hundred guineas was given by Mr Ascottl Magnet，which was first in the average for 232 bulls was $£ 49$ ，and the sale average for 273 head，including cow and heifers，was $£ 46$ ，the highest price for a female being 42 guineas．

Stock sale dates clatmed． March 26th．－W．A．Hartley，Wood March 26th． 3，Granton，Ont．；Holsteins and grade March 26th．－R．McCormick \＆Son Paris，Ont．；pure－bred and grade Short March 26th．－T．Alex．Lawrence and mares． April 3rd．－J．Loyd Jones，Burford，
Ont．；Shropshire sheep and Shorthorn dairy cattle． April 8th．－Camby Chariton
Springfield，Ont．；Shorthorns．
April 9th．－P．J．Salley，Lachine Rapids： April 9th．－P．J
Que．；Holsteins．

## 

MAROH 26, 1914
ГHE FARMER'S ADVOCATE


A Hill Song
There is a littio hint of sprine

 Go straying tar beneath the aky.
And far into the windy hilles. Whare distant, dim horizons lie, Ury quest tis but a singing bira Whooe vaice on uplands lone is heard, And this my path where none hath boe And thid my tent, an evergreen, I hate the omother of the townI love by breezy hills to stray,
When thawing streamis come leaping

0, joy it is, and free of care,
With the sun and the wind in my face Alone with the shining clouds which
 0 , jog it is to wander here, Where the wiling heart of the young, Quickens the earth, and Spring is near. And foy it is. the shorelark's ory-
Full well $I$ know ho walketh bysudiden winnow of grey wings, And in the light he goarre mad sings, And pausing in his haevenward fiight, Ho trails his silver strains of song by paths eye may not follow long Gree glimpes in the aurre tade, As if the soull of song had strayed


Some Echoes of the Horti cultural Society's Convention.

## Now that planting and seed growing

 are in the air, the time may be especial very excellent papers publishing of some vention of 'the Horticultural Association rardening operations. It may be stated that the papers have, in some cases, terest to farm folk being given obvious that statistics, etc., connected of interest torticultural Society, although of interest to the members, could notappeal to the vast majority of our readers.
opportenity for all
The nie acieties and establishing them as ieparate entity became law-in 1906, and logether a short years we have worke plished, but there remains much yet to do. Opportunities arise on every hand and city (and farm-Ed.) in Ontario, and and women who are enrolled with us neighbor to become imbued with the spirit of the beautification of home and of planting a shrub, vine or flower, what the homes, and would take place in hearts of even the strangers temporarily
many of the railways on this continent many of the railways on this continent bright, clean, decent stations and station grounds, and some of these corpora-
tions are offering prizes to the station
agents who keep their premises in the as nearly as possibly of what may be
best possible shape. Green, grass, vines called the naturalistic character.
and flowers add materially to the plea-
sure of travellers when they disembark sure of travellers when they disembark
from the trains. There are many stafrom the trains. There are many sta-
tions in the towns and villages of Ontario which are a disgrace, not only to the railway companies but to the citizens who reside therein. How many
of the delegates attending this convention know of railway stations in their localities where the paint brush has never been used, and which are nolther a thing of beauty or a joy to the
travelling public,? The influence of our members with the railway companies properly applied,. will remove the grievance. In England, Scotland and Ireland great pride is taken by railway corporations and their employees in beautifying not only the station and grounds but us follow the example of the Motherland in this regard, and the inaugurators of
similar improvements here will not have similar improvemeata here will not have Hriting on this subject in "The Amarican City," Mr. J. Horace McFarland, President of the American Civic Associathat whenever a railway begins to clean up and then to 'green' up about its station, its employees begin to do likewise
Always they are interested. Nearly always they ane helpful. Frequently they do civic things at home. One switchman along a great railroad secured per-
mission to bting good earth and lish little beds north and south of his switch shanty, in which he put the product of a five cent package of portulace. The situation was one of great heat and
the portulaca flourished amazingly the portulaca flourished amazingly.


A Bit of Mabel Osgood Wright's Garden.
passed on the trains. Investigation away seeds to his neighbors, and that a
whole vichinity had been started in flower loving through this action. "Summing up the whole matter, I propose then, first, that the station themselves shall sy and availability invenience, courtesy and aith which they
side; that the colors whar are painted shall be harmonious and relatively inconspicuous; that the planting, aside from the universai grass
which helps so much in most cases, shall which helps so much in most cases, shal
include, if possible, shrubs, plants and possibly tress common to the neightor-
wide variety of aplendid herbaceous plants, satisfactory, oconomical and
lightful - found in this country might somotimes prove practicablo propose to a railroad that is it would do the lawn making, a community or civic body would supply the planting of
native and characteristic shrubs native and characteristic shrubs, upon This hes been the most successful year in our history, both in regard to yoarbership and to expenditure for civic imto thank the members of the Association for the cordial assistance rendered continuously through the seven years of our existence, and trust that we will all
be able to continue our
be able to continue our efforts for the called the naturalistic character,
"I protest, against the so-called
"flower bede." Many a beeutiful lawn "flower bedo" Many a beentiful lawn
has beem made ineffective through an expensive, tortured combination, worked as a wiggle, an anchor, a wheel, or
some other unsuited form, into its grassy surlace,
"All these flower bed abominations ". "The planting that gives a restifl feel distance give double the effect on
the group on the ground, is the group planting usually treated as a background, with irregular edgee in-
volving, as I have said, the shrubs and plants of the neighiborhood. Such planting should look as if it had happened along the roadside of a lovely valley or
mountain highway. mountain highway. I have seen miles-
yes hundreds of miles-of God's plaiting yes hundreds of milee-of God's planting
of this sort which would enrapture travellers if it might have been traneplanted in small sections in the vicinity of soares of railway stations,
best to plan the suggested plating how best to plan the suggested planting of
railroad surroundings, let the investigator go to the nearest woodland and on its edge he will almost inevitably see a reasonably perfect example.
"I have seen very few
plants used about rallwey betations. Iris, asters, delphiniums, phlox and other more vigorous subjects would well
serve as an adjunct to the arub serve as an adjunct to the shrub plant-
ing, and I sincerely trust that those who undertake to persuade railroads to improve, and who make the undertaking more concrete and helpful by direct and detailed suggestions, will see the wisdom of availing themselves not only of the
native and near-by things, but of the
benefit of not only ourselves but of each of our neighborhoods. Standing towill be accomplished in 1914.
"As the ivy that girdeth the tree trunk This lew rumneth forward and back, And the wolf if thie strength of the

Vegertable production on a George Baldein Lor
I hope it is no egotiem to state that in both the floral and vegetable departhove of amateur gardening, in which 1 years, I hengaged for the past eight from a prizetalking point of vilow. For motance, in 1912 I woh $\$ 101$ in prize and a silver cup ; and in 1918 I have won about 880 in prize money, ome silver and two gold medals, and the
$\$ 100$ silver cup for the third year in $\$ 100$ silver cup for the third year in my own property, and, believe me, there is no prouder man in Ontario to-day (Applause). You will also agree that I
have to work hard, when I tell you, have to work hard, when I tell you,
that all my gardening operations have to be done before eeven a. m ., and atter aix p. m., with an occe
alternoon and holidaye.
The happiest life, in my optition, io occupation.
Now it gardenin amusement, as a game in which your noighborg and competitors are striving tives and truly delightful and nergy you put into in return for the Any kind of gerdening will become a provided you go at it with a wil, and in the right way, Othern
meet with disappointment.
Original weath came from the soll, and, while I do not garden from a come-
merclal point of view, the foregoing list mercial point of viow, the foregolng list
will convince the most nceptical that there is still wealth in the soll.
The two most important qualifcations or essentialo in gardening are energy
and ambition. Ehergy io as necessary and ambition, Fhergy is as necassary horse, if you want results. Ambition In a gardener le like steam to an engine
or butter to bread. With theee quallfications in gardening a man never knows when he is beeten
have already intimated, oo es gatue which is played trom the love of it
rather than from neceselity rather than from neceseity.
hobby or amuement you can absorbing hobby or amusement you can think of
Knowledge is esesetal to siccess, though there is no royel soad to that know. ledge. But got up. early in the morn-
ing and got bucy. Noting the mistakeen and omiestone your make thie year so an to rectily them noxt yeer, Join the
horticultural soclety of your distriet (one dollar por year) and get all information therefrom for all kinds of gerd Lening.
Lou it be dietinetly understood thei you cannot be a base ball "fan" of an
automobile enthubiast, as well as as suc cessful gardener.
The main thing is to grow well whet
you do grow, and that means a you do grow, and that means a study
of your garden. It means procuring
good seed. It means learning how to fertilize and fight the insects. It meand a lot more than I can tell yous in the
short space of time allotted ma. But I shall make a few suggestions which shal make a few suggestions which miny a back yard similiar to my own wher

In 1912 I tried to see how many to grow in my garden, and I accomelootch or plan of the Here is a rough yoer, and I may add, that I always work to a
Hot Bed.
Hot Bed.-To make a success of your bed or green house. I prefer the latter, and I built one for myself out of my prize money. 12 by 15 feet, and boller and around.
Sowing Seed.-About the second week In March after buying what soeds yous
require, look over your plan and soe require, look over your plan and see cowing some each of the following: attuce, opeppens, colery. melons and citrove. If you voed a hot-bed sow the moeds in rowe three inches apart. If or shallow sreen-house sow in seedpane are good, keoping them as close to the slas as poesible, so that the seedilings will not get spindly. Use lots of seed, - firmly cover thinly keep moist. When they have the second saekets, putting about six seedings in oech, apd keep them growing on until ime for planting out in the open. Preparing Garden.-The garden should bo heavily manured and dug roughly in
Uhe fall, only digging that part of the eardan again in the epring where you intand growing cabbages, cauliflower lettuce, tomatoes, eggplant, peppers, etc., but merely rake the ground over in beots, carrots, parsnips, salsify or other root crops. This will prevent the roots rowing crooked:
Along about the 15th of May prepare your garden to receive the seedlings
which have been raised in hot-beds, also Which have been raised in hot-beds, also
for seeds which you sow in the open, following your plan to the letter. find it a good method to take a rule,
with a pot of white paint and bruab with a pot of white paint and brush,
and makg a mark every eighteem inches along the fence, os this is the usual distance for planting vegetables. Cucum bers, squash, tomatoes, etc., need more room. Give them two spaces.
Date of Planting.-All planting, both by May 24th or 31st at latest, being gaverned, of course, by weather conditions. The first week in June is time enough to plant out pickling onion seed,
celery and winter radish seed.
the seeds of squash, marrows and cucumbers in hills that have been prepared three feet apart each way, by digging
out the holes fifteen inches deep, putting out the holes fifteen inches deep, putting to the depth of four or five inches. Press the seeds in edgeways, firm down
thoroughly, and scatter a few radish eeeds in each hill for the squash bug to Plantiog Tomatoes. - Prepare the ground for tomatoes similer to the equash, putting the plants the same distance apart, except the ornamental
varieties, which do best growing up the varieties, which do best growing up the
lences, besides giving your gardon a better appearance. ties for a city back garden, from my experience, are Livingstone Globe, Livingatone Coreless. Earliana and Chalk's Early Jewel. You can economize on
space and get better results by only allowing four shoots to ench only tomato
plant, which should be trained up sticks plant, which should be trained up sticks
one inch square, four feet six inches one inch square, four feet six inches
above the ground, at all angle of 75
dogrees outward. you will finy
 are
ally.
Cab
keop it in an upright position from the ground. The object of this is to give
the plant more moisture and more root end consequently better growth above. Carrots, Turnips, etc.-I do not think It needful to waste your time by explain ing how to grow carrots, turnips, par in spite of inattention, provided they are thinned out and cultivated occasion-
Cabbage.-For early cabbage and cauli-
fower, sow seeds in thed Mower, sow seeds in hot-bed soon as the weather permits. As for late crops sow seed in warm corners of the garden. Varieties of Cabbage and Cauliflower.Winnigstadt, Henderson's Summer and and Snowball is the best cauliflower for narrow gardens between board fences. Onion Culture.-Onaon seed should be sown in heat about March 10th, forced May 10 th Into good rich soill, such as your last year's celery bed, planted from lour to sixx inches in rows eighteen mochee apart to aneble you to get beand regularly. If you want big onions, feed once a week with strong liquid manure. Whem plants are in the young otage, scatter some slacked lime or powdered sulphur occasionally to keep port onions are the best, red, yellow and white, but have a row of prizetaker as well.
Celery Bed.-The celery bed should be prepared in the spring in the following

Luxuriant Growth in Mabel Osgood Wright's Garden.
(Perennial larkspur, tall nasturtiums, hollyhocks, perennial phlox, asters, and
other midsummer bloomers, will give a luxuriant growth such as this is,-it
of bed required, say for four varieties, wighteen inches apart. Consequently it wide or five spaces on your fence, rows running north and south. Shovel the earth out to a depth of eight inches, side. Fill the trench up with well rotted manure, which dig in deeply, trampling over this and digging it again to insure the manure being well incorporated with the soil. Then throw
three or four inches of fine soil on the top, into which put the plants eight moist and constantly stirred right up to the time for bleaching. Use the
ridges for growing radishes for the tables. You may get two or three crops
tare. Bleaching. -1 prefer earth in preference boards for bleaching the celery, as it

Garden cucumbers should have the and kept moist.
Eggplant.-Do not forget that if you
grow grow eggplants you must ever be on
the watch for potato bugs, as they will leave your neighbors' potato patch and eat up your eggplant in short order it eat up your eggelant in short order if
niot picked of regularls, and the plants sprayed.
Pickling
Pickling Onions.-About June 10th sow
your seeds of pickling onions aind winyour seeds of pickling onions and win-
ter radish. The soil need not be rich. Sow the onions thickly so they will come up like grass. They will push one another out of the way.
General Remarks.
General Remarks.-A few general re-
marks in conclusion. Constant vigilance marks in conclusion. Constant vigilance
is truly the price of sucesses in the growing of garden crops. What with worms, bugs and all manner of flying and creeping things, plue blight, mildew, and rust, the path of the garden
maiker is edged with thorns as well as roses. However, let me hasten to tell come at the same time, and all things at all in many gardens. Tha best way is to grow strong, vigorous plants, ves good seed and keep the ground well enriched and constantly cultivated.
The best time for watering
The best time for watering is the evening, but above all do not sprinkle
the foliage in the hot sun, as that the foliage in the hot sun, as that
causes brown spot and blisters. I amm causes brown spot and blisters. I am liquid form, a handful to a pail o water in the early part of
also during very dry apells.
also during very dry spells.


## and mellow enoug

transplanting is to handle the plan
carefully. Dibble your carefully. Dibble your hole big enough
to allow you to put all the roots in downward position, especially with the
cabbage family and celery, cabbage family and celery, as this is the primary cause of stunted growth. Always plant fromly and shade to pre-
vent the sun from scorching and wither-

## It should be borne in mind that it

 not nature's design that a 'plant should be transulanted, and we ought to showsympathy for a plant as well as for our fllow creatures. the kitchen garden, all I have through say is, may you have a successful to son next year, and may you be favored with reasonable rain and sunshine. For,
be it remembered that without the cooperation of the elements all our efforts

The Windrow

land has invited the churches to a con-
ference to pronounce against war in all
its forms. The appeal calls attention to
the fact that during the past thirty
years the
years the Christian nations of Europe
have increased their standing armies from
$2,650,000$ men to $4,200,000$, and their
military
$2,650,000$ men to $4,200,000$, and their
military expenditure from $\$ 697,000,000$
shame that it is the Christian nations of Europe who have been guilty of this offense against the teachings of Chrlat:

Senikorsky, a Russian aviator, has ing vided with wings which have a spread of 121 feet. Not long ago siattoon pase sengers were conveyed by it for a con-
siderable distance. It it lighte heated, and provided with a sleeping apartment. Aviators say that silkorky hes shown aerial passenger craft to bo quite practicable, and that tion on which he is working, its addi ward putting the popular motor-car of demand.

## Hope's Quiet Hour.

## Will Ye Also Go Away?

Then said JESUS unto the twelvo, Will ye also go away ? Then Simon Poter go ? Thou hast the words of eternal life.-St. John vi : 67, 68.

Our Lord had fed great multitudes of hungry people in the wilderness, and they
wanted to take Him by force and make Him a king. He slipped away from thom and returned secretly to Capernaum, bit
He could not be hid. Those who had received physical food from His hande crowded after Him, but received mon blame than praise for their action. The Saviour from sin was disappointed to find sin-sick souls caring chiefly for temporal blessings, so He spoke words which
changed the admiration of many into dismayed indignation. Solemnly He told them that He was the Bread of Lifo, that those who should eat His flesh and drink His blood, should live by Him,
should have eternal life, should dwell in Him and He in them.
It is little wonder that the Jews sald doubtingly or indignantly, "How can thit man give us his flesh to eat? It th joined surprising that many, who heo back and walked no more with Him. No explanation of the mysterious words was offered at that time, and even the apostles could not understand what their Master was telling them to do. He did not explain, but appealed to their loya affection, saying
also go away?
St. Peter voiced the thoughts of all we go? Thou hast the words of eternel life. And we believe and are sure thet Thou art that Christ, the Son of the Living God.'
Because they trusted, when they could their* Master afterwards showed them hom they could obey the command *which seemed so unnatural and impossible-the command to eat His flesh and drink Hio Three times lately I have had the privicompany of sick people who will probably very soon see the Lord Himsali face to face. Three who have lived their lives-as 30 many do-in absolute disregard of theil brance of Me," when they found death staring them if the face, felt constrained to obey, even though they could understand very little of the meaning of the great sacrament.
We all must die, and it is "Christianity be the Light of the new life on the other side of death, or there is no light and no life. To whom can we look for hope, fellowship and life, if not to Him This is a negative way of putting it, but I am not now speaking to those
can walk fearlessly and joyously through he dark gateway into life-knowing that Christ is with them and is their very
Life-but I am speaking to those who scarcely know what they believe.
ye also go away ?" He says to hesitat ing souls, who are quite ready to echo shall we go ?" but are not prepared to

MARCH 26, 1914
THE FARMER'S ADVOCATE.

Heve and are sure that Mhou art tha Christ, the Son of the Living God." To link together in living fellowship the ceoms to stir up more disunity than any thing else in Christendom.
I am writing to Christians who differ greatly in their opinions about the mean
lng of our Lord's words. He has seen fit to explatn His meaning-probably it. was as impossible to make men understand as it would be for a great mathematician to make some abstruse problem
clear to a little child. We have to take clear to a little child. We have to tak
his words on faith a little while. The men who listened to that mysterious die were'permitted to go away without an explanation being ofrored. Is they did
yot trust Him enough to wait until His time for exple
Now, I don't intend to try and explai
the mystery which my Master chose to beave unexplained, but I want to ech away ?" and tell you as clearly as I can
comething of what you will gain by
obeying His dying command, and obeying His aying command, and what
you will lose ly turning your back on
Trim who says, "Do this in remembrance of M .
Let us look at the body, and its
wey of gaining strength. We eat food Wry of gaining strength. We eat foo milk, meat, etc.-and the life within ou warmth, and strength, from cold and
ifeloss food. How can warm, red, live ufeless food. How can warm, red, liv
lag blood, be made out of cold, white lag blood, be made out of cold, white,
dead milk ? We. don't know, yet we don't refuse food because we can't under-
otand. can give no life or warmth to a dead
body. The life within us must do its part or the food will be useless, or worse roast beef and you will probably kill
him. So we don't know how the outwar
Visible part nourish and strengthen our souls, but we
do know that it cannot do us any good -may do great harm-if we don't diges
it spiritually. As St. Paul says, those who eat and drink without "discerning themselves, and are wealk and sickly. Right here I want to say a few word Lord's command because St. Paul has drinking unworthily." They seem to think that "coming unworthily" and be-
lag "unworthy to come" are the same guests bidden to the great feast may
mhow the difference. The servants were sent out to gather in beggars and out-
cests from the road. These, in their rags, and ignorance of palace manners,
were all unworthy to come. . But at the garment from the king's own wardrobe.
Those who felt themselves unworthy, thankfully accepted the gift-and so came
worthily. One-who thought his own garment, and was rejected because bo had not on a wedding garment.
So a man who comes to the Lord
-but knowing also that Good above has power to cleanse from sin-accepts thank-
folly the offered cleansing and is clothed with the spotless robe of Christ's righte-
ousness, and so comes in a worthy man-
ner, though he is still unworthy to come. ner, though he is still unworthy to come.
If an angel should come down from
heaven, announcing theaven, announcing that next Sunday the
Saviour of the world would be visibly
present in their need of help would not go away
The conly reason for turning our back or a love of sin which makes us keep a might have to give up something evil In Eastern nations, friends were linked
together hy a covenant of bread, and a
covenant Covenant of blood was the pledge of a
lifelong friendship. God offers to link
us to Himself by a double covenant of bread and blood. Soull we presume to
refuse that glorious offer? When we eat bread it becomes one with
us, giving life to our bodies. So the
true Bread of Life offers Himself to be us, giving life to our bodies. So th
true Rreanl of Life offers Himself to b
the I.if. of our souls, saying: "He that
eaten we,


#### Abstract

sather week by week around their Father's table, eating of the ear drinking of the same cup. where your loved ones may be you can meet them there, and know that the Life of Christ is linking your hearts and throbbing through your veins. A bridegroom's parting gift to his absence; so the gift pressed by the hand Church, the night before He died for her will be treasured by her until the Bridegroom's return. Read the last half of the sixth chapter of St. John's Gospel, and answer in all honesty the searching question: "Will ye also go away?" Will you turn your back on the Lord and refuse His invitation ? The question is His-He is waiting for the answer DORA FARNCOMB.


## The Ingle Nook.



## Mrs Pankhurst.

## A fow years ago Mra. Pankhurst do- ivered an address within a fow block

 livared an address within a fow blocksof where I was staying." to hear her. Pure prejudich kept mo of the militants in Fisgusted with the tactics see why women should be so cresy to ing things to learn and to do; surely there were enough good men in Parlia-
ment to saleguard women's interests;and so on, and so on.
Now, I am frankly sorry I did not go.
Whatever be said, Mrs. Pankhurst has Whatever be said, Mrs. Pankhuret has
established herself as a world-agure. For the time, at any rate, her name is as familiar as that of Mr. Lloyd-George or
Dr. Sun Yat Sen, nor will history find Dr. Sun Yat Sen, nor will history find women's. war," the first of its kind
ver known. It may laugh at her am munition, but it will pause upon her aims, and perhaps it will settle the quee-
tion as to whether the women's war was tion as to whether the women's war was
a result of the Pankhursts, as mo many a result of the Pankhursts, as no many product of

Personally, I am inclined to think the institutions of learning were closed to women, and even the rudimenta of a them, woman did not question. She acas they had been improssed upon her. Man was the head and the superior. He had the mind, she had the bodily charm. The woman must be dependent upon man

- no other course was open to her-therefore her chief business in life was to secure a husband; by coquetry, by oning to his emotions, his vanities, anywere fortung as enough to capture the right sort of man, well and good; if she had to be contented with a malkeshift, she must live her life out somehow. tellect were not for her; she did not oven know, for the most part, that they orshe was so in spite of her opportunities, not because of them. . And so by far the greater number of "her"-if we may
believe the old novels, which, presumably, days mirrors of their time-spent her inanity. She simpered and sighed. She fainted-perhaps because her corsets were
too tight. She tinkled on a spinet. She made "elderflower wine." She had did not recognize the deficiency. She
could not engage in healthful sport, because that would be "unladylike," so she
was daintily fragile,-a pretty, alluring creature, from a mere anninteresting old
in youth, an ugly, ung
woman, when her Dresden china charms had faded.
But two
woman. In the first place, a suffcient
number of her forged forth into new lands, where conventions were perforce
shaken off, and where, working shoulder shaken of, and where, working shoulder
to shoulder with her husband, she regained her place as a human, and helped
to found a new foothold for all monen The woman pioneer,-what has she not meant to the world? ghi In the second
place, those of her whodid not so fare
forth, oft-times "found" motherhood. As a mother she learnedsomething; yet mere motherhood never yet completely revolutionized a woman. from the best type. of mother of to-day morrow : the mother who knows how to care for her child, not by haphazard, but scientifcally; the mother whose own mind
is so broad and so keen and self - conis so broad and so keen and self - con child spends his days, not only with superior animal, but with a personality; the mother who can never by any chance stamp upon the impressionable mind of
the child a narrowness that will require half of his life to slough off-tortune if he does so, then.
Is it not true that the only mother cho can discharge her obligations to the
child in the highest possible way is the thinking mother, the educated mother,
the inspired mother, the mother who, though she may have missed the schools,
insists upon seli-education for the alk of her child ?

But the world moved on, and
the major part of it so far as woman, the major part of it so far as
mere numbers are concerned, could not mere numbers are concerned, could not
stand still any more than anything else was standing still. Little by little she got glimpses into the realms of the
beautiful world of the mind, and then came a vague unrest and a longing for more. "The mind is the man," Woman woman, to. She began to long for
opportunities for self-development. She opportunities for self-development. She
began to think less of sex and more of soul,-for
highest?
Tentatively and timidly she began to step forward, then, before long, she be-
gan to find herself blocked almost at every turn,--because she was a woman.
Sex, gex, sex 1-Evierywhere thet was hurled in her face until she almost began
to hate the word. She wanted a human being, with all of a human being's rights and opportunities,--all that
without accrificing any of her duties as a stood or misconstrued. As a result,
there were evolved many Pankhurts differing, it is true, in temperament, but united in unrest and in aspiration. Of the number, three mounted pre-minently to the crest of the wave,-Mrs. Pankhurst
and her daughters, Christabel and Sylvia.

Just here will you pardon me for jot course, have yours, and just possibly you may justify militant methods; two of three among the fine-and gentlo-wome whom I know, do so unreservedily. For really been able to work
of course, a plausible case is brought iorth. "Constitutional methods hav been tried for forty years," the militant
declare, "ever since the days of John Stuart Mill. We ourselves worked ateadily in that way for eighteen years. All
else has failed. Men have had to aght for every privilege they have won; the only diference The only life sacrificed
bloodless one. The yet has been that of one of our own, sell-immolated last year at the Derby." All very true, yet so some of us seems that such tactics as smashing win dows, putting acid in mail-boxas, pum
melling cabinet ministers, and kicking and fighting against policemen, involve too much loss of dignity to promise ac-
complishment of much that is important. When a thing is made ridiculous, hals the force of the "cause" is lost. When men
laugh "at" instead of "with," they for-
get to think. art, and stretching of barbed wire cov-
ered with paper as a bulwark against the police, as was done last week, savor
over-much of the "catty." Women cannot afford to be cats, either to purr or
to show vindictive to show vindictive claws. Their purpose
in life should be too deep and true to

A year or so ago-I forget the precise sion ever seen in Washington, procee through the streets to the Capitol, and white, on and below its broad sweep of White steps, onded the parade by acting tiful, before President Taft and the beaubers of Congress. The procession wae made up of women; the play was made
up of them, composed by the representing, composed by them,-women representing the suffragists of ithe United
States. No one thought of calling then "suffragettes"; they were "suiftragisto" and their presentation made its appeel. Perhaps it has not been as a result of
it that woman suffrage has been granted it that woman suffrage has been granted of the Union; but a scheme so appealing so clever, and so well earried out, cesp tainly did not retard the movement
A lew woeks ago, too, in Winnipeg, burlesque, composed and acted by Canedian suifragist, was put on at one of voted a great success

Now, one wonders, one wonders,-
would have been the result had the dramatio and the poetical been enlister in Enilend from the boginning, finsteat of window
melling ? True, there were a fow sne parades th entr'ncte of the 'drame. The drame it milt has been rather uniformly of the militant species, Had the elever women of Bngland devoted their energios and and acting of besutiful dramas and pegeants, and the preparation of musioa presentations and fotes,-all suffragiat, al demonstrating the capability, and de kind and the justice of their cause, what might not have been accomplished if Arter think they are. They are likely ment, even though these be based on good, hard platiorm of common sense. But it is easy to talk, is if not?

At all events, it must be conceded Pankhurst is unselifigh in her aims, mistaken in her mothods. And it musi
be conceded also, that the "causo" in one not unworthy even of the life of the stop the King's horse at the Derby, loolish risk, no doubt, yot to her vision justifable one.
Indeed, when one knows the whole story, or even a part of it, one ands it
impossible not to recognize that those who sneer most at the "woman's move ment"" are those who know the least about it or the need for it. Again, will you pardon a personal rel
erence? I have ald that not oo lon
ago I whe bitterly opposed to the nus ago I was bitterly opposed to the nul
fragettee, and could not should be necessary for women to vote $M_{y}$ confidence in "the good men" in the governing ranks and their chivairy to Wards women was great. I had no
counted upon the general lamness of humanity to deal with anything tha
does not personally affect it. Nolthes did I know anything of the medioval standing, ready to be resurrected, fairl was supremely ignorant, so naturally supre
matte

Ithink the first enlightenment came with the reading of an artiele by Bilze I remember rightly-on Mons Magazine, 11 tion against women as crystallized in English written and unwritten law. I remember that, alter reading that
article, I was for a few indignant, angry moments, ready to excuse the suffrag do. Hor almost anything they might husband that one. A wife permitted to have separate property, but denied
redress in case the husband, quite within the law, spent or squandered that prop-
erty. .. The husband entitled to all wife work for wages. . . The right of the wife work for wages. . The right of the erty away from his wife and children. .
The attitude of the lower-class English
chattel, he has a right to beat her These were just a few of the revelations
that glinted, with sinister enough flicker across those pages 'and the filcker vimilar articles read subsequently. Surely, I thought, we in Canade not realize the conditions, legally, unde whith English women have to live, and I think so yet.
Nevertheless,
of our own. The have Augean stables it the Convention of the Women's Institute, Toronto, in 1912, at which ad dresses on Canadian law as it concerna Mr. Ale Mills a ind Mrs. Parsons, of Forest, who has made a searching study of the question. Many of you were present, and many nore of you read the reports of that Convention published subsequently, hence
It is not necessary, nor is there here pace, to go over all the points in de ail. You will remember that it was pointed out that our Dower Law needs remodelling; as it stands at present Wife can, of course, always claim her
dower of one-third, or, if there are no children, one-hali of the landed property 4. however, a man and his wite wish to retire from, say; farming, and the proparty is sold, the wile must sign away her
right, and the husband who chooses to shean or shittless can do what he likes ve megn or shittless can do what he likes
with the money. . . Again, our Divorce Law needs attention. Agsain, it stands, divorce is comparatively easy for the
rich, almost impossible for the poor ich, almost impossible for the poo Then there are the ridiculous laws in remake the mother, in Ontario, the only parent the child has, the father escaping Scot-free from any responsibility obligation in regard to the matter.
Similarly unjust laws obtain in regard similarly unjust laws obtain in regard the other provinces.
All this, reader, refers to conditions that may not affect you or me; the fact, remains that such rulings may affect ther women of our country, and so, in reeper.
More widespread is the grievance of the onwritten law which makes it possible or : employers to force women to work for about one-half the salary given to
men for doing the same work; and that men for doing the same work; and tha
other one which permits cities to compe women to pay income tar on much lowe alaries than men are taxed for. Teach ors, clerks, office-women, practically all
women-workers come within these limitations, and, without a vote, without rep resentation, with their petitions continuelly shelved for "further consideration it is impossible for them to help themBelves.
Yes,
Yes, assuredly, women have a "cause," and unchivalrous man, or the one with a streak of natural womansuffragephobie In him, who, knowing the whole story will still refuse women the right to be the la
I do not belleve that, of late years at
least, men in Canada have deliberately meant to be unjust. They have jus been dilatory-because the matter did not
touch themselves. They have neglected to remove the antiquated pronounce ments, yet every now and then the "let ter of the law' must be carried out.Possibly, where salaries are concerned there has been some deliberation. . Had
women the franchise, it is sale to say women the franchise, it is safe to say
that these out-worn menacing statute would quickly enough be amended,-not to speak of the newly-constructive worl
for whose doing women would unite al most en masse. Is it not significan the United States voted $\$ 1,000,000$ to aght woman suffrage

At the same time, personally, I am no among those who believe that by giving
women votes all wrongs will be righted
Men and women Men and women are more alike than they
think. When women have the vote, believe there will be women grafters a
well as men grafters.-Already I have heard of women who voted, locally,
against their convictions in reigard to against their convictions in regard to
local option, because they were told that If local option carried, the value of their too, that on broad national questions such as tariffs and the naval problem, it
will be quite possible for women to be

Vote the wrong way, so far as the great est good to the greatest number is con-
cerned, Just as it has been, and always cerned, Just as it has been, and always is possible for the great majority of men Verily, the mays of and hoodwinked anding out. . . No; things will not be so greatly altered, on the whdle, when women can vote,-but there will still be the few sweeping questions which they


Mrs, Pankhurst.
will unite, almost shoulder to shoulder throughout their ranks, and these queswomen, as workers and as mothers wh have children to be saleguarded

But, dear me I I began to write about Mrs. Pankhurst, and my pen has run off on a dissertation on woman suffrage. Never mind; this will be the foundation. of the little militant lady who-story

This "sounds" delicious, Farmer' Daughter, I'm going to
go home for holidays.-J.

## RE FLOWER GARDEN

Dear Junia, - I have found your hints in the answers to questions asked very
helpful, and I now come for help with my flower garden.
The soil albout our house is very gravelly, and eve Ind it very hard to get flowers to grow. I would like to
know some good, hardy annuals, and know some good, hairdy annuals, and
how to grow them. Where could I how to grow them. Whare could I sen
for some seeds? I would also like to know how to grow pansies, and if they are hardy. Thanking you in advance, remain, yours truly. $\quad$ M. H.
Really, "M. H.," you can do nothing Really, "M. H.," you can do nothing
with a gravelly soil. Here is my sugwith a gravelly soil. Here is my sug-
gestion: Get "the men" to excavate space enough for two or three borders this year, flling the space with good, rich soil, hauled from somewhere else. Next year hiave the same thing done, and so on, until you have all the space you
want for flowers. This year, in a border
close to the might to the house or to a fence, you beans, pand taill nasturtiums; or if you prefer shade rather than flowers in vines, you might put in a Japanese-hop plant
Another bed or border might contain phlox drummondi, correopsis, and candytuft, with a thick border of sweet
alyssum, while a third bed, also boralysam, while a third bed, also bor over to ostrich alyssum, might be given fowered asters. If you wish a greater Variety, you might add annual larkspur you care for their reddish-purple tones) cornflowers, nicotiana and verbenas Some like marigolds and zinnias, which not care much for them,-they are so "stiff." For a spot in which a massing of tall plants is desirable, dahlias and ricinus will be found to fill all require ments.-By the way, I forgot;-one plant nothing else will flourish,-the portur cheery and bright in spite of hot sun and neglect. I wonder if it is not distant cousin of the irrepressible "pusley" which it somewhat resembles. Must


Arrest of a Suffragette.
all, has made many warm friends as
are sown in August, hardy. Often they are sown in August, to be sure of having
them bloom early the following with just a little protection year, and ther the winter splendidly. The weed may also be sown in boxes in the house
during March orApril, or out as soon as the ground is fit of doors Pansies need a rich, mellow soil, and plenty of moisture. They will do ver Seeds may be ordered from any of the seedsmen who advertise in this paper. the back of the follow the directions on

Recipes for Early Spring. Vibe last year oystor soup. Th you .m. oyster plants in your garden. vegethale know, some of these, like parsanipe you Jeruaalem artichokees, may be left in bio sround until spring, and may now be make a very nice vegetable oyster wash and cook in boiling salted as many of the roots as required. Whe oft, drain the roots and put them cold water to which a little vinegar has put the scraped roots through s, then table ricer. Cook together a little for and butter, add the oyster, then bour an gradually a little boiling water and hot ik boiling polnc. Add scalding: hot mik, season to taste, and serve very Hamburg Loaf.-Season 1 ib. minced add half an onion, chopped fine. Add beaten, egg, then $1 \frac{1}{1}$ cups bread crumbs. Mrike into a long roll, sear on a hot dripping - pan, pour on enough brown and bake one hour. Serve hon, cover, Salmon Croquettes - Beat an er and mix with 1 cup bread crumbs 1 can salmon, seasoning to taste, and 1 tablespoon melted butter to the egs. Mix well, form into croquettes, roll in crumbs, or cornmeal, and or cracker hot fat.
Peach Pie.-Line a pie-pan with pastr and partly fill with canned peaches. ake a custard and cover the truit. erve cold in a moderate oven, anu Baked Potatoes and Cheese,-Take 8 veir-sized potatoes and scirub clean with spread each half with a little buttor sprinkle with pepper and salt, and lay thin slice of cheese on top. Place on slightly greased pan, and bake in an ven, hot oven, until soft and brown.
Eggless Chocolate. Icing.-Put in aucepan $1 \frac{1}{2}$ cups sugar and $\frac{1}{n}$ cup sweet minutes. Do not atir it. Remove from the fire, add flavoring, pour out on a platter, and beat until thick enough to his cream icing, have 11 squares of chocolate melting. Cover the cale first
with the cream icing, then spread the chocolate smoothly over it.
Nut Biscuit.-Sift together 2 cups lour, it teaspoon salt and 1 heaped tear spoon baking powder. Rub in 1 large tablespoon butter, and 1 cup finely-
chopped nuts. Add 4 tablespoons sugar, and enough milk to make a biscuit dough. Shape with the hands into
small balls, place well apart on greased pans, brush tops with milk, sprinkle some of the chopped nuts on top, and balo
in a hot oven. Serve hot with butter.

## News of the Week

Hon. William Paterson, former Minister of Customs for Canada, died at Picton, on March 8th, in the seventy-fitth year of his age, and
on March 21st.

The Royal Ontario Museum, a magnit cent storehouse for curios, etc., on Bloor H. R. H. The Duke of Connaught, op
H. March 19th.

Senator Hewitt Bostock, of Kamloops,
B. C., has been chosen as. Liberal leader B. C., has been chosen as Liberal leader Sir George W. Ross

The new naval programme for Greece Prof. Mercalli, the world-renowned an thority on volcanic and seismic phe 19th, through the overturning of a petrol lamp in his bedroom.

Mr. Winston Churchill has announced the naval estimates of Great Britain for $1914-15$ as amounting to $\$ 257,750,000$,
an increase of $\$ 13,700,000$ over those of


## The Governö of Texad has asked per- mission to send his mexas rangers into TheBeaverCircle

 Hexice to send his Texas rangers into cued 0 o therest the Federal soldiers acin American eitiven His body, when of torture previous to murder

At time of going to press there is news troops are being disposed in Ireland to be ready in case of emergency. It is be move will be made, notwithstanding the fact that 110,000 men have been enrolled fact that 110,000 men have been enrolled

Competition on "Boys". Dear Beavers,-All the letters in the last competition have been examino, but to-day we only give thor Roll Beavers who are girls. - "Ladies first," you know, boys. However, as the girls were to writ about "Boys," and the boys about "Girls," no doubt the boys will be as
much interested in to-day's letters as
mas mucheir own.

## The prizewinners among those who wrote on "Boys" are: Mildred Metler, Welland Co., Ont.;

 Effie Stoltz, Huron Co., Ont.; FlorenceMcEwen, Middlesex Co., Ont.; May Lemendin, Peterboro Co., Ont.; Mary Jeffrey, Bruce Co., Ont.
Honor Roll.-Ida Ball, Louisa Carson, Isabel Cruickshank, Grace Perry, Barbara Myrtle Simpson. Mildred Metler'm composition, by the way, cannot be said to be exactly original, as it is the report of an address However, as reporting is not at all easy
work, and as hers was so nicely done work, and as hers was so nicely done
we decided to give her a prize with the we decided to give her a
rest. The prizes are equal.

## WANTED, HAZEL YE ADDRESS.

Some time ago we wrote to Hazel Yoltion Prite The letter, homever, wea returned to us, so that it appears that Hazel's present address is not that which she gave us last year. We shall be pleased to hear from her.

Dear Puck and Beavers,-When I saw in the paper we were to have a nem an easy one, as I had recently heard an address about "Boys," given by Dr. Laidman. He was one of the principal

## Do <br> You. Grow Oats?

In thio day of intensive farming it has bee


 OVer. Berchoue free
Seeded 75an Ber buneret , Rrown from Regittered sisberian , grown from Regitered Seed, 75c.
der butbel.
O. A.C. No. 22 Oate. We feef confident that We have the pureet and beot witid ont thin
 si.00 peren busthel. pratically free from Barley, Daubeney. good ample, contains odd BarBBack Victor, very fine ammple, 85 c . per
buahell
or
Corn?
See our Catalogue for prices and description.
We pay freight on 10 bushel orders of Corn,
bagg prre. We guarantee the Corn to be sat
iefactory.
or
Timothy?
Ninety--nine times out of one hundred we
can sany
and Alfalfa. mouney
This
 for ourb best brande. We pay the freight in
Ontario and
Ouebec to nearest Raiway
sta-
 and Timothy.



or
Barley?
O.A.C. No. 21, very fine sample, 90 c. per
O.A.C. No. 21, No. 2, good clean seed, 80c.



## or

## Mangels?











Geo. Keith \& Sons
124 King St. East Toronto
speakern at our Sunday-school Conven-
tion. As I had taken notes on some of tion. As I had taken notes on some of
the best addresses, I will now try and thell best aldresses, I will now try and
tell lou all can remember of Dr. Laidman's. interesting address.
Every boy is a conundrum to himsell and everyone else. Some men would like
their boys to be angels instead of real boys, although perhaps they were not half so good when they were young. The
reason is, they forget they ever were boys themselves. TTo teach a boy, you
must be in sympathy with him. Some must be in sympathy with him. Some
money ought to be spent in entertainmoney ought to be spen he should also
ment lor the boys, and be given a good education. It is said
that in some schools they have more trouble with the girls than with the boys, but it is also said that women are more stubborn than men. Boys do not
like to be driven to do anyithing but in like to be driven to do anything, but ii
they are asked kindly they will do anything that is expected of them. Boys should be kept busy, although this is a hard thing to do. But boys generally have some special work that they like
to do. Let them do it, and do not drive them into doing something they don't like. Encourage play. The boy cannot work without play, although work is good for him. In each period
of the boy's life, he tales someone for his hero, whom he would like to be like
her There are five different periods in a boy's life.
First, is childhood age, the age from
three to ten. They then chree to ten. They then look up to
their fathers as being great heroes. A great responsibility rests on the fathers
when boys are at thet when boys are at that ago.
Second, is the age from ten to four-
teen years. This is called the "grang" period, when the boy likes to "gat with his chums or boys of his own age. His hero then is- the leader of the gang. He
no longer likes to play with his little ho longer likes to play with his little
sisters, and the worst thing to malte him wear is curls. He is shy, too, except
when he is with hise him the age when he wants to be more important than he has been. It is natural
at that age for him to want to kil
are something. (such as frogs want to kil) Try to keep him from cruelty, and don't
scold him, and say he is the worat bo in the world.
fifteen, is the age from thirteen to \& hero. Teach him that the greatest Hero is Jesus Christ.
Frourth, is young manhood, the age he is a very disagreabale being. This age
hero the worshing now hero he worships now is himsell; he
thinks there is no thinks there is no one like him, and what
he does not know isn't worth knowing and he does not try to make himselt
agreeable with other people. Do not
and worry about hints
right in the will come out all
rit
Be patient with him. thinking so much of himself, and is will ing to work with others. He has now come to the age of wisdom, and can see how foolish he used to be, and he is
willing to respect the righto of other people the rights and opinion remember of Dr. Laidiman's address,
will close. (Age 11 years, Jr. IN Class.)
$N$ Porth
Pelham, Ont.

Dear Puck and Beavers,-What would this world be if it were not for the good
and kind boys that dwell in tin would he dreary hat dwell in it ? wound be dreary, and the sunshine would
soon leave your life, if it were not for
the cheery whistle of the woys not work and play. What should we do without our dear brothers? To think When you wake up in the morning, the first thing you hear is the cheery crackle
of the fire, and the merry whistle of the boys as they split wood and pile it on
the blazing fire. How would the paths be cleaned and the cows milked if the boys did not do it? Our dear father,
would have to do it., and they would soon break down if their sons did not
take all the work and worry off their Can boys work in the house? Why cirls it they foel like it. NJw. you girls
of the Beaver Cirle just get aig biron
on your brothers, and see if they are not real good kitchen-maids. Perhaps
shoula not have said this, for the boy
will be get tint their sisters out to shove


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$\mathrm{W}^{\mathrm{ANTED}} \mathrm{TEA}$-A few competent farm hands of



 State wages to to Tim Rielly, Belton P.O... Ont.

 that he is a auceesful
write Bor sol Bowmanvilleter. Ont.

SEED POTATOES Davies' Warrior Choice Stock bag, \$1.50
Pusillnch D. A. McNAUGHTON Ontario Lochabar STOCK FARM is offering Burns 84269 . He is one of the ripht god oneal
deep fleshed low down, straight, thick and full of Shorthorn characteri; very sure and active: he is
show bull as well. Priced tight for quick sale. D. A. GRAHAM, R. R. No. 3. Wyoming, Ont.
Strawberry Plants. - Williams'
Improved
Snledid


the paths and split wood; but I just said lt to honor my brothers, and any other kind boy who helps his mother and sis ters in the house.
the cry the boys are what make the streets. Some play and run along just a nuisance, but if atl the boys left the city the people would find out what run errands had been. It is the boys that who do oll the their tired mothers, and school to help their parents pay out of and grocery bills.
Some days when I will be in the house wondering what I can do, a merry shout will, greet my ears, and my brother will this nice day? Che the fun with mee on the ice!" Just the thing I longed for, and soon we are having a great time on the smooth ice. Then, at dinner-time, it is always your brothers that come in looking so hungry, bave some recommendation to maki, as Say, mother; this pudding is great," or Just what a boy lukes." Now, girls, treat your brothers well and keep them at home nights by playing games with
them and having a few boys and girls in once in a while. Then they will like home as well as anywhere. Now, Puck and Beavers, I have written this in a hurry, as I want to help my brother to
build a snow-man, but I tried it anyWay. and there is nothing like trying to
write a composition, even if you think ou "an't. Good-bye, all. De,feld P. O., Ont., R. R. No. 8.

## BOYS. T. war Puck.-Seing your competition in n.wr Puck.-Seeing your competition in Fehruary 12th issue of '"The Farmer's

## ENGLISH Han-HINE LACE

MADE BY THE COTTAGERS OF BUCKINGHAMSHIRE
 by the Flemish Refugects It is tail made Mey we the Fexting of Eepire and hereviel

Earthibition, CJy tal Phace, LONDON, ENGIAND, for gemenal eccellemec of worlimentip.
BOY some ot thit hand-made Pillow Leoo, it hation MANY tlmee longer than meohinn medo B variety, and imparts an air of diationtion to the pooseanor, , et tho name uime apporting





DAINTY HANDKIE-700.


Mrs. Addie Armstrong, Olney, Bucks, England
Pleass Mention The Farmer's_ Advocate

Boys are very mischievous, fun-loving ellows. They like to tease and play tricks "tootball, baseball eroquet, tennti, many other games. Basoball is very hard on them if they don't wear maske or sometimes they get hit on the face, Some of them like turning somernaulte
and wrestling. ilost of the schootboy are well acquainted with that kind of exercise. Some boys are very fond of hunting squirrels, muakrats, rabbits, and other harmless animals. They generally trap or shoot them. The muskrat akins They keep the rabbits and squirrele for pets. They also like to eatch a tem pigeons to sell. Very few boys like
fowers. They would rather go ithing awers. They would rather go alahing and get hall-drowned when wading. Th
farmer boys ulke to fide horseback, an hitching dogs and calves to hand-sleighs. One boy hitched a blg calf to an old
cutter and went down to the school. Ho cutter and went down to the sch
was a cruel, hard-hearted boy.
Boys are sometimes very proud and men as soon as they can wear overallo When they begin to wear long pants they think they know overything and can do anything. Some think they are men when chey can smok clgara. Thin most of One little boy set a match to a cat and it set the barn on fire.
Some like carpentering. Most of then can mg
things.
Others like to read and study book and, magazines. Still others just like to roug Well, I think I have written
about boys, especially bed oncs.
Aub EFFIE STOLTZ (age 13).

## Progressive Jones Says:

## "Get a Good Crop in Spite of Handicaps"



Take a pointer from Mr. R. A. Jackson, of Cottam, Essex County, who faced a small crop due to late planting and a bad dry spell. From an acre of fertilized land he reaped over one-third more bushels of corn than he did from an acre without fertilization. He has a high opinion of

## Harab Fertilzers

Good fertilizing helps to win prizes, too. In the field contest for the best ten acres of corn in Kent County, the first, second and third prizes were won by Messrs. W. G. first, second and third prizes were won by Messrs. gentlemen used Harab Fertilizers.

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Wauns flo bumpoex axofis,
Pragressive Fones
The Harris Abattoir Co., Limited, Toronto Fertilizer Department


November from a Beever in Owen Souind I thank her very much. I wish abo would tell her name.

Dear Puck,-You asked us to write
composition about boys, so here goes: Well, in the first place there are differ. ent tribes of boys, and boys whose ways
differ entirely from one Doother. There difer entirely from one bother. Thore
are white black, brown, and yellow boys; are white black, brown, and yellow boys;
rough, cruel, bad-tempered, good-natured, kind and gentle boys. Well, I am going to talk about white boys this tima
Most boys are very fond of work, and those that are farmers' sons can holp lhem quite a lot. But some boys are
lazy, and will not do anything; and then they expect to be great men when they grow up. Work keepe them out of a 101 of mischief (for, you know, boys are very mischievous). Now, boys, don't get cross at me for saying this, as I don't meap
you all. When a party of mischievous boys get together, they will insist on getting into a lot. of scrapes. They will tease the dog and worry the cat, pul the girls' hair, scare them, and do all
sorts of other pranks, and sometimen sorts of other pranks, and sometimes
make fun of the good boys. Boys are fond of all kinds of pleasure, such boating, fishing, swimming, baseball hockey, skating, tobogganing, and skling. Most boys are very fond of horses
and could spend all their time with them They will often help their mother them. ters about the house, such as splitting wood, carrying in water, etc., and'll they happen to.spill any when Sis is is rather a bad humor, she will call them
careless, and say, "Dear, dear ! Boys will be boys. Why can't you be more careful ?" Then they will go out to the barn and see what wants doing there. Boys are very useful in the world; and when they grow up each has his own men, detectives, bank clerks, office clerke carpenters, smithies, farmers, missionaries, preachers, and ever so many other callings. Say, girls, aren't you glad you don't live in China, where they think the world of their boys, and I have often
heard that they throw the little girle out on the hills to die? I would not like that. Well, Puck, you told us not to write too long a letter, so I mus quit. Well, bye-bye till next time.
Care of Robert Bell, R. R. No. 2
Peterboro, Ont.

## Boys.

Dear Puck and Beavers,-I saw then there was to be a new competition tor the Senior Beeavers.
Boys will be boys" is an old saying They are very fond of making noise, also of excitement, and this is quite right for them, so long as they do not carry it to extremes
Honest, good-natured boys are certain While they are small, nothing pleasee While they are small, nothing pleasel
them more than to be allowed to help in anything of which they are "incapas ble."
When country boys get to be ton or twelve years of age, they are, or should be, able to build a load of grain, also
of arranging the sheaves in the mow. When boys live in the country thes When boys live in the country they
have much to interest them, besides what have much to interest them,
they would have in the city. When the city boy rises, he eats his breakfast, and then he has nothing to do until it is time to go to school, but after schoo he has
lessons.
When the country boy rises, he goes to the barn and helps do the chores. After these are completed, he goes to the house and has his breakfast, which he hastily devours. He then goes about gathering up his book
After he returns from school (in summer) he goes to see what the men are
doing. If it be harvest, he is shocking building loads, or mowing in the sheavee. It does not take him leng to have a drop of sweat on the end of his nose, and another on the bottom of his chin. doout an hour's work is over when his-boss ! Co-boss !" comes floating to his ears. He looks toward the pasture, and if the cows are not coming, it seems Most boys mill at least one cow. After

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EASY WASHER CO.解解 Pace, TORONTO

MARCH 26, 1914
THE FARMER'S ADVOCATE.
607
oupper he often plays
he goes to his lessons.
In the winter, however, things are ditrent. People do not rise so early, six clock being the average time.' Breakeoady for a few chores. He helps to fead the cattle, clean stables, and many ther little tasks. At night he helps ith the chores betore supper. Atter
apper it is lessons. He then feels ready for a sfood sloep: Out-door games are more to their nd "Pump-pump-pull-away", "Leads," and "Pump-pump-pull-away" are "two fevorites with them. "Leap - frog" af-
cords them much amusement, as does "Foz ahd Goose," and "Snowballing." for some boys, the best part of snowIorts is knocking it over. a boy wh I have never heard of a boy who
otarted to read "Boy Tramps." It is atory of two boys who tramped across the ,Dominion. "David, Copperfield" and "My Strange Rescue" hold them to reading.
One day
One day Bob Merrick came into the "Have you seen my cap around since tanch?" he asked, flushing, for he knew "t should be hanging in the hall.
$\qquad$ "Where?" he asked, quickly, for he Baw - tew boys of his bet coming down the atreet.
"On your head," she replied, soberly. "A good spot," commented Bob. "Just
where I wanted it to be. *here I wanted it to be.". peg in the hall."
"I'll be back after a while to hear the rest of the sermon," he said, slipping
through the door. through the door.
The next thing aunty saw was Bob's legs flying down the garden path.
Wishing the Circle every success, I remain yours truly,
MARY M. JEFFREY (age 12). Mary M.
Port Elgin, Ont

THE LAST OF THE GARDEN COM-- Par
cot my garden ready about the middle of May. The first thing was to choose the ground. I chose a piece $24 \times 6$ feet, then I dug it and raked it very fine, and
in a day or two after, when the ground was real dry, I marked it of for the Was real dry, I marked it of for the
difierent seeds. Along the back of it I planted sweet peas for a background; these seeds are round. I had lettuce along each end; these seeds are long, flat,
white. For a border, I had portulacer White. For a border, I had portulace; along the ground, and makes a very, good border. This seed is very small and dark. In the center there was a little. round plot in which I had zinnias. They
grew pretty tall, and had a lot of flowers on them. The rest were vegetables -carrots, beets, radishes and parsley. The carrots, beets, and radishes all grew Ane, and there were quite a fow. The rest of the flowers were candytuft,
aiters, and sweet alyssum. tuft was of different colors, and the asters were also different colors............... I saw quite a number of birds in the in it to gather them. I some crumbay or two hummingbirds. In the very one test weather I watered it nearly every The asters and the zinnias were the last to stay in bloom. The rest of them The time that the picture weather came. the things were at their best, but the picture was not very good, as there Well, I will close now, hoping this will oscape the w.-p. b., and wishing the ELIZABETTH HUGHES. R. R. No. 2, Hanover, On

Dear Puck and Beavers, - My garden was
$4 \times 22$ feet. I $14 \times 22$ feet. I had it divided into four
equal parts. In one part, corn, lettuce, equal parts. In one part, corn, lettuce, in another part, citrons, and morningglories along the fence. They flowered well when they were once started, and were so many colors. Every time I looked at the garden I could see one
mass if beautiful flowers. There were absut if beautiful flowers. There were
abo hundred flowers on every morning in a patch twelve feet long. The third part had lettuce, onions, and
radishes, with a border of nasturtiums

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ou choose, be sure to enclose 10 cents to pay the postage. Bear in mind, that if you order up to five (5) bags we will pay the freight on the flour to any station in Ontario, east of Sudbury and south of North Bay (see ${ }^{\top}$ terms above). To get a book, at least 3 bags must be flour-the other two bags may be flour, or any other product mentioned in the list printed above. Add 10 cents to your remittance to cover postage and wrapping of each book.

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Blacik Victor Meat Foods are clean healthy meat and bone from whlch all srease Waste and moisture have been removed
more econcrulcal than the cheapest fres meat. Writo for complete prico-llet Matthews-Blackwell Limited - Toront
 and sweet peas. The other one had which contained sunflowers, larkspur, and many others which I didn't know the names of. The frost came too soon and spoiled the morning-glories, so I thought like the work if I have lots of time to do it, but I was going to try the Bntrance, so I had to study quite a bit. I passed, and thought it easy.
I will close, hoping to do better another year, and wishing the Beaver Circla
every success. overy success. HAZEL E. TISHMAN. ge 18, passed Entrance.
Hageraville, Ont.
Hazel, your letter was lost for weeks, so your name did not appear in the announcement. However, it is not too late to send you a prize book.

The Ivory Snuff Box.

## By Arnold Fredericke.

 Copyrighted.) Chapter VI,AFTER HIM
When Richard Duvall left Dufrenne, the curio dealer, in Piccadilly Circus, and started after the man who had pur
chesed the box of powder in the barber shop, he reialized to the full the hope lessness of his task. The man had left
the shop at least two minutes before Dufrenne camme out, perhape more. Another minute had been consumed by the latter ' in telling his story. Thres
minuite's start, in a crowded street at minute's start. in a crowded street at night, was a handicap which the deteos
tive could acarcely hope to He hurried along in the general direce tion the fellow had taken, trying to form in his mind a clear picture of his appearance. In the dim light before the shop he had not been able to obeerve him closely, nor had there, indeed, ap-
peared any' very good reason for doing peared any' very good reason for doing
Bo ; he had thaught the man but a belated custlomer of the place and had barely glanced at him.
His experience in summing up at a
glance the general characterietics of glance the general characteriotics of those he met. however, stood him in
good stead. He remembered that the good stead. He remembered that the
man had worn a long, brown overcoat a derby hat, and carried in his hand a small satchel. : The latter, which Dufrenne had failed to mention, indicated a uraveler, the man's words to Selta,
on purchasing the box of powdir, on purchasing the box of powder, seem-
ed to confirm it. The man had walked. apparently, instead of taking a cab.
Charing Cross station was but a short Charing Cross station was but a short distance away. What was more natural, Duvall reasoned. than that the man he
was following was on his way to take Following this line of reasoning the detective walked hastily in the direction of Charing Cross, dodging in and out among the passers-by, and eying keenly every ane he met, in the hope that
might discover the man satchel.
He was, however, doomed to disapminutes in Charing. Crom over fiftean watching the charing Cross starion, offices, the telegraph and telephone that he had been mistaken in his course of raasoning, and reluctantly turned his steps once more toward the shop of $M$. There was, of course, still the chance Seltz might still have the snuff-box in his possession. and the man with the satchel be merely a harmless individual who used rioe powder after shaving. He almost reproached himself for having
wasted so much time and hurried along wasted so much time and hurried along
through Piccadilly Circus, in a state considerable perplexity.
As he came up to the shop, he saw
Dufrenne standing before the window eyes glued to the pane. Something in his astonished expression attracted the detective's attention at once. He tap-
ped the curio dealer lightly
om the shoulder.
Dufrenne turned suddenly, much startled; then recognizing Duvall, drew him ute since wou left," he door evary minute since you "left," he said in a trem yet he lis not inside. No one is there
but M. Perrier."

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THE FARMER'S ADVOCATE.
axclamation. startled back with a muttered "You-you must be mistaken !" he "Look 1
The Frenchman pointed to the window, Duvall glanced within. The pro-
prietor of the place was ite only occupant.
The detective turned to his companion and nodded. "Come inside." he said shortly, and triding up M. Perrier, startled hall out of his Wits by the suddenness with which Docomb with which room, dropped the his hair and turned with a startled fece "The shop is closed for the night," he aaid. "My men have all gone home."'
"uHas Seltz gone? ?" auked 'Duvall ebarply.
Ster ${ }^{2}$ ? Surely. He left Immediately artar shaving this genitleman." Perrie bling forefinger. "Is anything wnomg factory $?$ factory ${ }^{\prime \prime}$ "
Duvall
looked at the curio deater with "It'e perfectly clear, Dutrenne," he said, somewhat creetfallen. "Our man wheet, whille you were wallking up the happened in the shop.0" The little old man nodded. M. Perrier continued to gaze at his visittoris. presentily inguired. wish. gentlement ? ? he presentlly inquived,
manded sharply. "'Alas ; I do not know. He has worked for me but three monthe. I know arked for leave io at He-ho be gone a week. But to-night ${ }^{*}$ he told me that he would not go."
Duvall's eyee lit up. He turned to Dufremne
"uAfter
"After what happened to-night-" he thhinking that his going away would be an admission of his guilt:" M. Percler Again Dufrenne nodded. M. Perryer
looked at them both with bulging eyes.
ciln "Guilt $\mathrm{l}^{\prime \prime}$ he axclaimed. "Han thin should not ?": Duvall ejaculated dryly, "TPossibly," Duvall ejaculated dryky. going ?" "He-he said something about visiting his parents. Oh, gentlemen I I beg of you, do not cause any scandal; it would ruin my trade. I shahl discharge the "Ylou will do nothing of the sort." exclaimed Duvall angrily. "IT he reporto for duty to-morrow, say nothing to him
of our visit, or it will be worne for you." He leaned toward the terrified barber, "Be careful of what you do." M. Perrier sank upon his knees, his
hands lifted in supplication. "Mon hands lifted in supplication. "Mon Dieu I What shall I do ? My business

- it will be deesolated. What shall I do. - it wilt up and hold your, tongue, first of all. After that, tell me, if you can where it was that Seltz intended to go to visit his parents.
"He apolke of Brussels; he intended to Antwerp. I heard him discuesing his plans with one of the other men." "Brussels !" ( Duvall hurriedly glance .t his watch. ","There's just time, if w He turned to Dufrenne, excitement ohowing in every line of his face. As ho burried his shoulder to M. Perrier. "Don't open ynur mouth to a sonl; do pels into a peck of troable." The last thing they heard as they left
the shop was the barber's howl of asAt the corner Duvall signalled a pass ing cab.
"Liverpool
Street Station, in burry," he cried. "Half a crown ex
tra if you make the boat-train for Harwich." $\begin{gathered}\text { Dufrenne gazed at his companion in be }\end{gathered}$ wilderment. "I do not understand, M. Duvall," h began, but the detective cut him short.
"The thi i.-g is as plain as a pipeatem," he said. "Seltz expscted to go
the snuff-box from the ambassador's ma


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 $\begin{aligned} & \text { snuff-box } \\ & \text { done. }\end{aligned}$
inside, and the thing was "This he no doubt did at some op-
portune moment during the evening, portune he was certain he was not
when he mater
observed. It is a mighty clever scheme, observed. It is a mighty clever scheme,
rill admit. Y You asw nothing suspicious about the transaction, and I confess
that I did not realize its significance the time. Naturally, the man to whom he gave the box will make for Brussels at once, since it was to that point that Seltz intanded going. No doubt he was
operating in the interests of some operating in the interests of some one
elso-some third person to whom the elso-some thim person to whom the
box is of great value, and who has agreed to pay a large sum for it on dolivery.
"You saw the fellow who bought the
powder hand Seltz money ; how much you could not tell. It may be that with his friend, and that the latter has already turned ovar to Seltz his share
in advance. of that we cannot be cer in advance. Of that we cannot be cer-
tain, not is it material.
Soltz is is undoubtedly guilty of the murder of the him now would only defeat the object we have in view. Aftar the box has been recovered. we can return and deal
with Seltr. You may be quite sure he
with with selta, You may be quite sure he
will not dare yo run away, for fear that
by so doing he would admit his guilt,", Dufrenne lonked at the detective in adh miration. "You reason well, monsieur,""
he remarked. "But why should they be he remarked. "But why should they be
taking the box to Brussels?" taking the box to Brussels ?
cept that I cannot tell you, of course, ex-
cen said before, the plot to steal it evidently originated there. W9
shall learn more to-morrow. have arrived in that city. The next thing to be done is to find our man."
They arrived at Liverpool Street tion just in time to swing aboard the train for Harwich as it was pulling out.
There were not many passencers and they found themselves in a compartment
quite to themselves. quite to themselves.
"There is no use in attempting to d anything until we reach Harwich," the
detective remarked, pulling his hat over He leaned back and began to speculate
discustedly upon the Married at noon-torn from his wifg murder - and now a
a wild
chase to Brussels after a snuff-box. It seamed
almost ludicrous.
He smiled primly. He had not expected to spend in quite honeymoon.

house, Grace your bread here in the
easily serve hot bread on or rolls to could,
cold

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## "Impossible, mademoiselle. All our bread comes from a bakery in the city. A young man brings it each morning at Grace laughed inwardly. This was just the information the information for which she was seek- ing. It was then a little after nine. She felt tired and worn from her, al- most sleepless night, and her showed it. When she told the nurse that she intended to take a stroll, and get some a ir, the latter nodded. ". Dr. Hartmai ha

she said. "Hartman has recommended it.". value of fresh air." The woman made
no reterence to the events of the night no reterence to the events of the night
before, nor did Grace. She knew that sleap-walkers were not supposed to re-
member anything that occurred during member anything that occurred during
their attacks of somnambulism. On the way out, she met Dr. Hartman, returning from his breakfast con-
stitutional. He was just entering his office.
"Good morning, Miss Ellicott," he said pleasantly. "May I ask yסu to step inside a moment? There are a few cuestione I should like to ask you." was njarly hall past nilue, she knew, and she must not miss the delivery-man, if $\begin{array}{ll}\text { she was to send hel message to } \\ \text { Brussels. } & \text { She heard the aoctor saying }\end{array}$ Brussels. She heard the aoctor saying that he would detain her but a few mo-
ments. The first question the doctor asked sent the color mounting to her cheeks,
and she hesituted before answering it, realizing that it was a trap. "Do you feel any the worse from the
experiences of last night.?" he inquired. xperiences of last night. $?^{\prime \prime}$ he inquired. For a moment she was about to say
"No," but ce,ught hersell in time. "What experiences?" she raked innocently enough. "Did I have an atShe fancied that the doctor appeared relieved. He smiled as ho rellied.
"You wandered about a little. The nurse must have been negligent., I hhe
reprimanded her. You might readily have a serious accident, if left to yourself."
Grace looked at him with a smile which scarcely concealed her agitation.
 trust you will be able to do something
for me." We shall cure you beyond a doubt. think, however, that it will be necessary to employ hypnosis. All cases such as yours respond most readily to hypnotic
suggestion. However, I shall observe your case for a whila, longer before making a decision., You are going out for a walk, I see." "Yes. I love the air."
She rose with a secret fear of the, man in her heart. If he should hispnotize her, what was there to prevent his
learning everything? She determined to avoid this mothod of treatment at all without anousing his sispicions. "Good morning," she said hastily as she left the room.
The walk to the entrance-gate in the fresh autumn air served to revive her
spirits wonderfully. Her original intenspirits wonderfuly. Her original inten-
tion had been to stroll down the avenue which fronted the house in the hope of meeting the delivery-wagon on the way.
In a moment the futility of this plan became apparent. She did not know
from which direction the wagon would appear, nor would she be able to recognize it, even should she be lucky enough uncertain, then began to walk along a path which led among tho trees and
shrubbery, with oue eye all the while upon the gateway at the entrance.
Once or twice vehicles passing Once or twice vehicles passing the
road outside startled het into sudden action, she went toward the gate only
to find that they had passed tenseness of the situation began. The on her nerves; in her fear she was cerhouse, or by the gardener in the distance, who was engaged in raking the She had almost given wal in despair when she heard the rumble of an approach
ing cart, and saw a smart little driven by a young man in a blue jacket with large brass buttons enter the gate. She went quickly toward the roadway, pretending an interest in the horse. The
young man saw her approaching, and

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ontreal Swift Current, Calgary, Yorketon, Edmonton. - Agencies Everywhere - applying Pressure, and starts and stops the feed. 1
morning. He may be here at any mor
He began to whistle merrily, pretended to remove a stone from one of the
horse's shaes, spang back intt, the
wagon, and drove off to thic house. witt: out paying any further attention to her.
Grace walked slowly up the driveway. and finding a bench near a bed of geraniums, sat down and pretended to rear
a book which she, had brought with her. After a time the delivery-wagon re-
turned, but the boy did not even glance
She noticed
Ooked at her shrewdly. She gave a light nod, and continued to approach
him. All of a sudden he threw down the reine, gave an exclamation, and pect the horse's feet with great delibertion and care
Grace went up to the horse and be-
gan patting ite nose.
"poor, fluow," she said conoolingly, in
English, looking all the while at the oung man's face.
"Are you Miss Elliott ${ }^{2}$ " he said sudout turning his hoad. "Yes." Her reply was quick, eager.
"Dr. Hartmann is expecting a messenger from London with the stolen snuffsox to-day or to-morrow. I heard them
falking about it last night.
The mes senger is a stranger to him. The mes
He does The boy nodded gravely. "You are instructed to remain near the front of the as much as paryible, during the day.
The man from Siondion is expected this The man. He may be here at any mourned, but the boy did not even glane


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She sat on the bench for aver an developendering what would be the neat She could not shalse mysterious affer. she would soon see Richard idea that the fact that she had no definite ro ons upon which to base her hopos.
the man with the stolen ed certain. If arrived in Brussels, it clearcly in London, and it fatled to capture him. able to suppose that he would lowing him.
much that it about the matter so tempts to read while she ered it and. Atcer a the distant gardener as he ceaselesel the gravel paths.
peace-everything, in fact, but so full of thoughts. Somehow it seemed imposelble to believe that underneath all the plotting, and tragedy, and even day lay was close to noon when she ceased ouse sing, and rising weht toward the had made her a bit chilly. She deter the to seek the grateful warmth or
she heard sounds of a cab of the hoose rapidly along the main street ariven sudden intuition warned her that some thing of an unusual nature was about happen. She glanced back as the her ring, and was door in response to that the vehicle had entered the grounds, and was rapidly approaching Her hasty glance showed her that it and in spite of the distance she tancied that she detected something familiar about the poise of his head and shon--she stepped at once into the momentary room at the right, set down the fie and opening her book, pretended to ${ }^{-3}$ In absorbed in its contente.
the maid in the was observing narromly the open the hallway, who stood at man who was driving up in the cab the

## -

POUDRE PERRIER
When Richard Duvall and Dufrenne arLondon, the former requested his companion to turn up his coat collar, pull sor hat over his eyes, and put on they were trying to loared that the man nize the curio dealer as the mignt recoge ad occupled the chair next to hitm in M. Perrier's barber shop earlier in the aning. He also requested the Frenchalone, keeping a sharp lookout for the Dun, the brown overcoat Duvall himsel? joined the straggling aboard the steaner for Antwerp, his eyee searching every passonger about him for some sight of the one he sought. Once long way off, going up the steamer's gangplank, but he could not be sure, in the flickering light, that he was right. He went aboard the boat in some course of reasoning might not be incorrect. Here he was bound for the continent, on the heels of a man who moment sleeping peacofully in his bed in London. lit a cigar and began to pace the dectl nervously, inspecting the few passengers who had elected to remain outside, be-
fore directing his steps to the saloon Afer some five minutes spent in a use less search, he observed a familiar figure approaching him from the direction of the companionwa that it was Dufrenne. The latter passed him without any elbows were almost touching said in a "He is below, in the saloon, monsie He has not taken a stateroom. Duvall continued his walk about then
decks for a few moments longer, then
threw away his cigar and descended to

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the saloon. A number of passengers
were dozing on the sofas, or in chairs, and at table several were playing He paused for a moment to watch the
game, his eyes searching the room for the man in the brown overcoat. Aiter a time he located him, sprawled in an
easy chair, his eyes closed, his sutchel asy chair, his eyes closed, his sutchel
tossed carelessly upon the floor besilut him. " The detective began to strol thought. His eyes were fixed, however, upon the ace of the man in the chair. It was
a determined face, as the thin lips and closereet eyes showed, but Duvall noted with satisfaction signs, of weakness
about the halfopen mouth. The man was undoubtedly sleeping soundly Duvall was of s lose to know Just
what to do. He was convinced that the ivory snuff-box, upon the recovery of which M. LLefevre had assured him the
honor of France itself depended, was honor of France ftself depended, was
within ten feet of him, yet he could do oothing, apparently, at the moment, to regain t.
To arrest the man, except on French
soil, was out of the question, Even could he do so, the package which the latter had so carelessily slipped into his overcoat pocket in M. Perrier's shop
might contain, after all, but a harmless might contain, after all, but a harmless
box of rice powder, and he would be hard put to explain satisfactorily hie action.
snifleo other hand, the presence of the
sn the man's person, supposing this to be 'beyond question, was not in itself sufficient to warrant placing as his own property. There was nothing to show that it had been stolen. Clearly the only thing to do wae to at tempt
stealth.
After a long time spent in debating the matter pro and con, Duvall threw himself into a chair close to the one
which the man he was watching oowhich the man he was watching oc
cupled, and pretended to sleep. Of Dut After perhaps an hour, the card game ceased, the players retired to theis staterooms, or to near-by solas, and a steward began to lawer the lighte. throughout the saloon except the chorus of snores from the sleeping passengers,
and the creaking of the vessel as she and the creaking of the vessel as she
plunged into the heavy Channel swell. plunged into the heavy channel his foot, and with infinite patience leather satchel which lay beside the man's chair. He did this so slowly and imperceptibly that the operation occupied the bes
part of a quarter of an hour, At last the bag was safely pushed beneath the folds of his overcoat, which he had removed on sitting down, and
now lay thrown carelessly over his kneee.
He
He bent over noiselesely, his hand be neath the folds of the coot, and began
to fumble with the catch of the satchel In a fow moments he managed to open it, and with nervous ingers examined Guided by the sense of touch only, he was able to identify successively a razorcase, a shaving-brush, a eotton night shirt, and a number of oter articles of He had almost given up the search
when his fingers closed about a small, round object, done up in paper. His heart gave a leap of joy. He could package was bound, and could tell from its lightness that it probably contained what he sought he had drawn it noise. lessly from the satchel and transferred The process of closing the bag and returning it to its former position was accomplished without waking the sleeping occupant of, the near-by chair. feeling of
Duvail was conscious of a exultation. He yawned, stretched himself, glanced with great deliberation at his watch, then rose and quietly lett the
The decks seemed deserted. After some trouble he managed, however, to
locate Dufrenne standing beside the
rail in the shadow of one of the liferail in the shadow of one of the lie-
boats. He went up to him and saw that his teeth were chattering with the
cold. Duvall could noi repress a feel-


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go, but designed to keep it going sweetly and smoothly go, ebut designed to keep it going sweetly and smoothly
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|  |  |  |  |  |
| wheel turning radius |  |  |  |  |
|  | adjustments | Low center of gravity- | Raproved ${ }^{\text {Rainshield }}$ magneto. | lightness in weight |
| throttle. | Certainsary. | pood looks, easy rid- | ${ }_{\text {All }} \mathbf{l l}$ moving parts en- | ng system. |
|  |  |  |  | fuse box cover. |

ing of admiration for the little old Frenchman, who, rather than risk for a they were following, had elected to spend the night wandering about the
docks. His patriotisn was pros and dscks. His patriotisn was proof against
even the cold. Duvall touched him gently on the arm I have secured it," he remarked quiet Dufrenne turned. "The snuff-box ?" he The detective nodded, and cautiously drew
pocket
as he began to remome the string arked Dufremne's lips moved. He seemed to


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Questions aind Answers. Veterinary

Abnormal Dentition
Last fall my two-year-old bull was covered that all his mouth and disdecayed and folle out sis teeth had now teeth have out. Since then, two the reast of his teeth, will he get The rest of his teeth, and how soon ?
W. T. McL: Ans.-This condition is abnormal. The
temporary incisors should not have fallen out until forced out by the permanent ones. However, it is quite probable that a full mouth of permanent incisors The central pair, which you normal ages. present, should, whicer you say is now years of age. The next pair, called in ernal laterals, at from two years and three months to three years. The extornal laterals, at from two and a half to three years, and the corner ones at
from three and a half to four years. In some cases the teeth appeare several months earlier than above, as dentition in the ox is not regular.

## Abortion.

Hare was bred on June 3rd, 1913. She was well fed, well cared for, and worked moderately occasionally during the fall mammeo began to enlarge. On Merch ${ }_{3}$ rd wax formed on her teats, and che showed symptoms of parturition, but appaared all right next morning, and was driven a few miles during the day and toaled during the night. It think the foal was alive when born, but was dead when I saw it. What caused abortion? Will it occur again next year if she be bred, and how can I dry the mare?
Ans.-It is not possible to say definitoy what caused the abortion; some acci-
dent, fright, or odor unknown to you. The symptoms given indicate that the loal died about the 1st of March, but you may be right in your supposition
that it was alive when born.
Neither is it possible to foretell whather she will again abort if bred. Mares readily acquire the habiy of aborting. At the same time it is probable that it bred
again and given regular eerccise or again and given regular exercise or light
work during pregnancy and very care fully handled, especially from the seventh to the tenth month, inclusive, that she will carry the footus to full term. To
dry her, feed only on dry food, give 1 dram iodide of potassium three times daily, and milk a little whenever the mammo become quite full, but
merely enough to prevent distress.

## Miscellaneous.

Tubercular Fowls.
I have some fine pullets, and they hav been laying all winter, and quite a lot
of them are sick. Some of them have died. They get lame, and their backs seem to be affected. When they try to
walk they tumble over an their side. walk they tumble over an their side Please state the trouble.
Ans.-From your brief description, jadge that your hous have only given one
tuberculosis. symptom,
others which you will be able to notice Possibly they become thin, and some
times pale around the head. However times pale around the head.
whole flocks have died without losing Whole fiocks have died without losing
any flesh at all. They usually get lame in their right leg. The safer way is to
dissect a diseased bird and notice the liver and glands. They will possibly be
 little can be done. Isolate any birds
that show signs of the disease. Do not that show signs of the disease. DD not
spare time or material in cleaning up the building where they are or th
grounds which they may inhabit. Thorgrounds which they may inhabit. Thor-
oughly cleanse the house and whitewash it with a mixture of whitewash contain-
ing a five-per-cent. solution of carbolic actl. one lady in a recent numbe
morites how she burned sulphur in her writes how she burned sulphur in her
henhouse with exceedingly satisfactory results. We cannot se wherein this
would be effective, but its a condition not a theory, and
with other remedies
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obtrinuming that thigh presure can alwayb be

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him and tell him what we eay. THE UNIVERSAL LIGHTNING ROD CO.

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A Father's Soliloquy--
No. 3.
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| :---: | :---: |
| Oill Cake Meal |  |
|  |  |
| Pea Meal | -21.2." |
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|  | -12.4. ${ }^{\text {c }}$ |
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Questions and Answers. Miscellaneous.

Young Pigs Dying.
I have a litter of little pigs that are dying. They were fed on milk, sifted oat chop, some sulphur, and lots of large pen. Since weaned they seem be. bloated all the time. Two have died, and the third is dying. I opened one, and its bowels seem to be full of wind. They are costive in their passage. Their droppings are quite hard and lumpy: What is wrong with my pigs, and what would be the best treatment ?
G. D. S.
Ans.-The trouble probably arises from Ans.-The trouble probably arises from which has given rise to constipation and digestive troubles. An English correspondent writes that he has one cure-all for all diseases in pigs, and it is new
milk and turpentine. However, we genmilk and turpentine. However, we generally recommend raw linseed oil or Ep-
som salts for young pigs of this kind. som salts for young pigs of this kind.
A teaspoonful of Epsom salts in their food would be enough. . We think that if you will decrease the amount of food slightly, feed a little bran and new milt
with Epsom salts, the trouble will be with Epsom salts, the trouble will
removed.
Scratches-Pig Troughs-Silos.

1. Horse eight years old has scratches.
Also is blind. Would you advise cutting hair of his legs, which is thick up to his knees ?
2. Could pig troughs ten feet long be pen to pen? If so, how strong, and
mo would they stand?
3. A rents a farm from $B$ for ten
years. $A$ wants $a^{\prime}$ silo, but $B$ refues years. A wants' a silo, but B refuses
to:build only at A's expense. Would it pay A for 100 -acre farm to build at his own expense? FARMER. Ans.-1. We would not advise cutting
the hair off his legs. It should act as a protection. Give a purgative of 8 drams aloes and 2 drams ginger. If
possible, allow the horse to rest two or possible, allow the horse to rest two or
three days. Apply hot, linseed-meal
poultices to his legs for two days and poultices to his legs for two days and
two nights, changing the poultices about every eight hours, then dress the parts three times daily with oxide-of-zinc oint-
ment to which has been added 20 drops
carbolic acid carbolic acid to each ounce. Do not
wash. If his legs get wet or muddy, rub well until dry, or allow the mud to
dry, and then brush it off, if you have not time to rub.
4. Cement makes very good pig
trough, but ten leet is rather long if 2. Cement makes very good pig
troughs, but ten feet is rather long if
you intend to carry them from one pen to another. They will stand almost indefinitely. A mixture of 1 to 5 or 6
will make a very good trough. will make a very good trough.
5. Many feeders of dairy cat
S. Many feeders of dairy cattle and
steers say they can put up a silo and pay for it in one year from the increase in the way their stock will do when fed
on silage. We have no hesitation in on silage. We have no hesitation in
saying that if you are to retain the farma saying that if you are to retain the farma
for ten years, that it will pay you hand-
somely to construct a silo at your somely to construct a silo at your own
expense.

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makers. Here are some figures for you:makers. Here are some figures
land ( (pprayed) produced 84 lbs. of crop and $11 / 2 \mathrm{lbs}$. or mustard. A plot exactly the same size (unsprayed)
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HEREFORD BULLS

THE FARMER'S ADVOCA' E E
Questions and Answers.
Miscellaneous
Tenant in Arrears.
Tenant in Arrears.

1. A rents a house to B, and $B$ fails to keep rents paid up, being old-past the working age. B has a daughter keeping
house for him. She has cows and sells house for him. She has cows and sells
milk to neighbors; takes in sewing, and milk to neighbors; takes in sewing, and
gets more benefit from use of property gets more beneat from use of property
than anyone else. Is she responsible for rent ? Can A seize cows for non - payment of rent? Furniture is only what is barely necessary-nothing to seize. 2. Can B remove manure from the place and use it on a lot belonging to his daughter?
Ontario.
Ans.-1. No-to both questions.
Alfaifa and Frozen Silage 1. Does soil or seed of alfalfa have to
be treated or inoculated? I sowed some
last spring and it did not do well be treated or inoculated? I sowed some
last spring and it did not do well.
2. Ensilage froze around edge of silo. 2. Ensilage froze around edge of silo.
We cut it loose and threw it in the sang We cut it loose and threw it in the gang-
way of cow stable, which has cement
floor, and it got warm but did way or cow stable, which has cement
floor, and it got warm but did not heat.
Do you know how we could get this to
heat? heat ? $\quad$ W. B
Ans. -1 . Alfalfa, nor the soil upon which it is sown, have to be treated with nitro
culture, but in the work of the Bacterio-
logical Department logical Department at Guelph, in connec-
tion with the Experimental Union, it was found that sixty-eight per cent. of the
reports received were in favor of treat-
ing alfalfa with nitro culture. If you ing alralfa with nitro culture. If you
have a soil upon which it has previously
grown successfully, you might take some of the soil from the field where
it was grown and sow it broadcast upon
the newly-seeded field. The better way however, is to write to the Bacterio-
logical Department at Guelph, send a quarter, and get a bottle which will
treat one bushel of seed, enough for 2. We cannot understand why you want
this silage to heat. When silage freezes this silage to heat. When silage freezes
to the walls of the silo, it is simply
scraped down as it thaws, to warm up a little, when it is all right
to feed to allowed
to to feed to the cattle. We never heard of anyone having trouble with it other
than this, and we cannot understand why you wish it to heat, any more than it
has heated in the silo during the process of fermentation or silage-making. No
doubt, before this, the silage has thawed doubt, before this, the silage has thawed
and you have fed it, and it would do all
right for the cattle, but it is not adright for the catle, but it is not a,
visable to feed frozen silage to horses. History and Etiquette.

## 1. I noticed in the paper where the De- partment of Education decided to do away with the Entrance

 away with the Entrance. Do you sup-pose it is for all the schools, or for the oronto schools only?
2. In connection with the Batcle of Orange. Does this mean that he was 3. When introducing a gentleman and
lady, whose name should be mentioned first? Kindly give in full the correct
way of introducing.
X. y. Z. Ans.-1. So far, the abolition of the
Entrance is not universal. There is no
general general regulation doing away with the
Entrance examination. We have no
knowledge of it being made use of in knowleage of it being made use of in
rural districts, but if it is successful in
larger schools. larger schools, the principle might be ex-
tended further. 2. The first Orange lodge was organ-
ized in 1795 , and the Battle of the Boyne was fought in 1690 , over a cen-
tury before. The lodge takes its name rom the fact that King william III was
rrince of Orange. Orangeren are sim-
fly enrolled in secret societies and take Wy enrolled in secret societies, and take
the name from the House of Orange, of 3. When iutroducing a lady or gentle-

87




I have 20 Im GREAT OPPORTUNITY TO GET NEW BLOOD 13 months old. low set heavy bone, good head and horns and well marked. 1 In will delivee
 SHORTHORN BULLS FOR SALE oroly head from 10 to 18 months, bred from cows which are from imported dame and atrod bp
 SHORTHORUS
Myrtle C.P.R. A. J. HOWDEN a and heifers of cholcest quallty and breediag. SHORTHORNS AND CLYDESDALES

 Glenallan $\underset{\text { also some heifers. }}{\text { Shorthorns }} \begin{gathered}\text { We have some of the best young bullu } \\ \text { we ever bed. Scoth or Bot } \\ \text { Glenallan Farm, }\end{gathered}$ . MOORE. Manager.
Shorthorn Bulls FOR SALE From one up to one harr



MEADOW LAWN SHORTHORNS OF RICHEST NDD
SHORTHORTS
SHORTHORNS
 SALEM SHORTHORNS

## Sprucedale Stock Farm

$\qquad$

MARCH 26, 1914


SPRAYERS Aroo Nooos.tivy



HAY \& STRAW
$\begin{aligned} & \text { All kinds bought outright or hand- } \\ & \text { led on commission } \\ & \text { ostating grade, fual } \\ & \text { Write at once } \\ & \text { when you could make mhtity and }\end{aligned}$
whane shint.
Crampsey \& Kelly, ${ }^{\text {D Dovercourt }}$ Road Toronto SHORTHORNS, COTSWOLDS, BERKSHIRES For sale-A few Shorthorn females,
 CHAS. E. BONNYCASTLE

## SHORTHORNS

Bulls all sold, choice females for sale. 1
pearling Clyde stallion, 1 weanling Clyde otallion, big, best quality and breeding. $\underset{\substack{\text { Manager. }}}{\text { John Clancy, }}$ Cargill Limited,
Cargill, Ont., Proprietors.
GLENGOW SHORTHORNS
Still have a few choice bull calves, and
eeveral real nice heifers of different ages. WM. SMITH, Columbus, Ont.
5 SHORTHORN BULLS

Spring Valley Shorthorns

 Woodholme Shorthorns

 "OAKLAND" SHORTHORNS
 rervice, all of high quality, and priced to sell.
Dual purpose a specialty
John Elder $\&$ Sons
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ГHE FARMER'S ADVOCATE. 623

Questions and Answers. Miscellaneous. Hen House Queries. henhouse material would you build

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Shorthorn Cattle, Dairy Cows, Shropshire Sheep (40 Cattle) WELSH PONIES (50 Sheep) The property of J. LLOYD-JONES, Burford, Ont.,

Friday, April 3rd, 1914
This offering comprises registered Shorthorn cattle, Holstein, Jersey and Shorthor grade dairy cows, 50 excellent breeding ewes and some choice Welsh ponies
number of young heifers of milking strains. The dairy cows are all heavy producers and fresh. The 50 head of Shropshire ewes and ewe lambs are as nice a flock as may be found in the G. T. R., Burford, one mile.

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and some of them very choice. Bred -in my great prize-winning strains. HARRY SMITH :: HAY P.O. :: EXETER STATION


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12 months. All reds and rann, and of honocic breeding. We have
some extra, good imported mares, for sale also some foals. If in-


$$
\begin{aligned}
& \text { MITCHELL BROS. Farm } 1 / 6 \text { mile function. Burlington } \text { JURLINGTON, ONT. }
\end{aligned}
$$



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North American Chemical Co. Limited
Clinton, Ontario
Cattle and Sheep Labels
 - $1 \begin{aligned} & \text { Sheep. portage or duty to pay. Cattle } \\ & \text { sizes with name and add }\end{aligned}$ Gumbers; sheep or hog sizz, name and numbers. Wetter rate Circular and sample mailed free. $\begin{aligned} & \text { Bowmanville.Ontario } \\ & \text { F. JAMES. }\end{aligned}$
Spruce Lodge $\underset{\substack{\text { Shorthorns } \\ \text { Present offering: } \\ \text { A } \\ \text { A number }}}{\text { nuter }}$ of good heifers and young cows, withng: A number at foot,
from good millking families. A few ram lambs and choice lot of shearillng ewes, now bred to imp ram
W. A. Douslas. R. R No. 2. Caledonia. Ont.

Dunganon Ayrshires $\underset{\substack{\text { For high- } \\ \text { class Ayr- }}}{\text { Dut }}$ shires, write us or come and see them. We We. can
gell matured cows, heifers, heifer calves; all bull
calves
$\qquad$
High-class Ayrshires ${ }_{\text {ing }}^{\text {If }}$ you are wantyoung bull out of a a 50 -lbs.-a-day and over cow,
lmported or Canadian-bred dam or sire, write me. D. A. MACFARLANE, Kelso, Quebec City View Herd of R.O.P. Ayrshires
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Nothing servicable on hand. Can spare a couple James Berg \& Son, R.R. I. St. Thomas, Ont. ENWOOD STOGK FAf
HOLSTEINS
yearling bulls for sale, out of big milking strains,
t low figure for quick sale. Tho mil B. Garlaw \&
Son, Warkworth, Ont. Campheliford Station Holstein Heifer Calves from heavy-milk-
 choce bull calves from extra heavy milking, high-
grade eows $\begin{aligned} & \text { B2 each. The riht kind to improve } \\ & \text { your herd. Glenoro Stock Farm, Rodney, Ont }\end{aligned}$

Questions and Answers. Miecellaneoue.

A's barn is fired by B's traction engine while travelling along the hirher The engine being an old and condemned one, and not equipped with spark arvalue of the barn from B ? value of the.
Ans.-We think so.
Registered Clydesdale.
crosses of Clyde. with four straight the births for the four crosses back; also the names of the horses for the four back. Will she register, and if she will,
how will I get it done? get it done?
Ans.-We think so. Write "The Ac
countant," National Department of Agriculture, Ottawa, full particulars. Of course, all sire must be recorded.
Diseased Cow.
A sold a fat cow to B and received the
money for her. B killed the cow and money for her. B killed the cow and
found a growth on the inside. Now B
wand a wants A to be the loser. Can B come
back on A for the whole of the money, or even a part of it? The beast was not guaranteed, although both thought
her sound.
A SUBSCRIBER. Ans.-Judging, as we must, from the should say, no,

Pigs on Cement.
Do you think that having a cement thor for pigs would be likely to cripple
them in cold weather? It is my idea that it will sometimes, and I do not think pigs will grow as fast when kept Ans.-Cement floors are believed by many to be conducive rheumatism pigs do extra well on such floors if kept well bedded. However, it is generally used for flooring to build raised sleeping platforms of plank for the pigs, th
being placed on top of the cement. Measures.

1. Which liquids (coal oil, vinegar,
maple syrup, and oysters) must be sold maple syrup, and oysters)
in Canada, by be sold,
imperial
measure, and which may be sold by wine measure?
2. What is the difference in quantity between a quart of each measure? SUBSCRIBER. Canada by imperial measure. The stand-
ard for these two different measures ard for these two different measures is
cubic inches. An imperial gallon concubic inches. An imperial gallon con-
tains 277.274 cubic inches. A wine gallon contains 231 cubic inches. A quart cubic inches more than one quart by wine measure

Worms in Horses.
ling filly that throw small white worms Please give a remedy. SUBSCRIBER. may be expelled by an injection per rec tum. Take one-half pound of quassia chips and add two gallons water in a pot. Put on the stove and bring to a
boil. Then allow it to almost boil for
fir. Pour or five hours, adding a little water
if necessary. Strain off now and sufficient warm water to make a gallon.
Inject the rectum with warm water just to remove all freces. When this is re-
moved, inject the decoction and hold the
tail tail down for at least half an hour to worms, if any be present, will be intestinal worms, which should be treated thus: Take three ounces each of sul-
phate of iron, sulphate of copper, calomel, and tartar emetic. Mix, and make
into 24 powders. Give a powder every one has been given, give a purgative of
ond eight drams aloes and two drams ginger.
Feed bran only for twelve hours before and twenty-four hours after giving the
purgative. These doses are for a mature animal, but you will have to judge
the amounts according to the size of the

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60 head including my two herd sires King Isabella Walker No. 8257, a bull whose three nearest officially tested dams, a sister of his dam and two
sisters of his sire, average 30.34 and his dam has a semi-official yearly record of over 22,000 pounds of milk and 990 pounds butter.
The junior sire King McKinley Lyons No. 17729 has 7 nearest dams in the first four generations averaging 29.60 butter, his maternal gr. dam is the ters of the senior sire in this sale, 17 mature females with records from 16 to 24 lbs ., three-year-olds from 17 to 22.32 lbs , two-year-olds from 13 to 20 lbs , females are sired by such sires as King Segis, King Fayne Segis, Sir Aaggie
Beets Segis, Prince Hengerveld of the Pontiacs.
Bery Prin He
Every animal will be sold without reserve as the owner has no way of er another Season owing to lack of pasture.
SALE WILL COMMENGE AT 1 p.m
Col. B. V. Kelly, Auctioneer P. J. Salley, Proprietor
Syracuse, N.Y.
Lachine Rapids, Que.
Ayrshires \& YOrkshires $\begin{gathered}\text {-Bulls for service of different } \\ \text { ages females all } \\ \text { ves ofes of both sexes. } \\ \text { Ail brep }\end{gathered}$ ALEX HUME \& COMPAMY, - GAMPBELLFORD,R.R. No. 3
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HOLSTEINS.---D. B. TRACY,Cobourg,Ont. We have a choice lot of bull calves with strong backing and from dams with
records of 18 to 24 lbs. Just the kind you are looking for. Write for extended

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MARCH 26, 1914

HOLSTEINS
oryutin ans
bred dams with good A. R. O. backing.
No females for sale at present.
Wm. A. Rife, Hespeler, Ontario
Maple Grove Holsteins
Present offering: a few bulls fit for service, sired
y the great King Lyonl Hengerveld, who le
teyond doubt the richest butter and milk bred
eyond doubt the richest butter and milk bred
tull of the breed in Canada. These bulls are out
high testing R.O.M. cowe and heifers, and
tast freshened. If you want the best write me for
oriceand particulars.
C. BOLLERT, R.R. No. 1. Tavistock, Ont.
Woodbine Holsteins




The Maples Holstein Herd


$T_{\text {mo young bulls, one } 12 \text { months, and one over } t w o ~}^{\text {men }}$

DON JERSEY HERD ${ }^{\text {R.R. No. No. }}$,


THE FARMER'S ADVOCATE.

Questions and Answers.

$\qquad$ tack which is afterwards driven down
smooth into the end bar of the frame. The frame then has three horizomtal just the right size to fit inside the frame. the sheet of foundation on that, and the
wired frame on the foundation. The upper edge of the foundation must first
be fastened in the groove in the top bar
bupplied by means of a wedge, which is supplied
with the frame. The ordinary spur-
$\qquad$ dealers, is taken to have the room in which the
be ta
work is being done at a good warm
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fat. Grand dam has a record of 29 lbs . Calf is nearly ready for eervice. Write me for degcription and breeding.
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W. E. THOMPSON, R.R. No. 7. Woodstock, Ont. L.-D. 'Phon POR SALE-Male or female. Herd sire, Prince HOLSTEIN-FRIESIANS $\begin{aligned} & \text { BULL CALF for sale. His dam's record } 24.12 \text { butter. Writè for pedigree chart. Our price is } \\ & \text { very-reasonable. } \\ & \text { D. B. TRACY, COBOURG, ONTARIO. }\end{aligned}$
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Collie Dogs
${ }^{\text {Four literas iried dy Imp. Holyrood Marquis are }}$
 Near London $\quad \begin{gathered}\text { ROBT, MCEWEN, } \\ \text { Byron, } \\ \text { Ontario }\end{gathered}$ Oxford Down Sheep $\begin{gathered}\text { Shoorthorn Cat- } \\ \text { tie, Yorkshire }\end{gathered}$
 Maple Grove YORKSHIRES-- 200 head Are ad good as the best, becaupe they combine the
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Questions and Answers. Miscellaneous.

Growing Alsike.
In seeding down a field from which you
intend to take a crop of alsike seed, would you sow timothy or red clover along with the alsike? If so, would
you have the seed of these in the alsike you have the seed of these in the alsike
seed, and can you separate them from sead, and can
the alsike seed?
Ans.-By all means sow nothing but
alsike -where you alsike where you expect to reap alsike
for seed. One of the groateet in alsike growing is to keen timethyles oven though it is not goen timothy out, anything with the alsike where grown for seed.

Apple Dealers.
Five years ago 1 went into business
with a firm in England to with a frm in England to buy apples.
They furnished the money, and I did the buying and shipping to them on consignment. There was a loss of $\$ 3,000-$
which they say which they say I have to make up to
them. Now, all I am worth is a large them. Now, all I am worth is a large
farm atock and machinery. Can I make
 take the chattels and sell them, and settle, so much on the dollar, for what-
ever they bring, and get a settlement for over they bring, and get a settlement for
what they claim I owe them ? what they claim I owe them ?
Ontario. Ans,- -No;-that is to say, they would
not be obliged to accept the chattels in settlement of their claim. But perhaps their claim is not valid. We think it
would be well for you to consult a would be well for you to consult a
lawyer personally on this point, and, in lawyer personally on this point, and, in
the event of his advising you that the claim is one that could bo legally enforced, instruct him to negotiate a suitable settlement.

Addition to Barn.
a cedar-log building. for a hay-barn on Reet by 18 feet 6 inches, walls 11 feet ${ }^{\text {higar square }}$ pitch roof. I can get taills and cedar blocks), and spruce mu
sat posts and rafter plates. What sizes, and how many posts would I need?
can cut and square them in my own bush, using $2 \times 4$ scantling for rafters,
and Would rafter plates do in two pieces braced? How would be the best way Ans.-By your inquiry, I would under stand that you intend to add an exter
sion to a log buildia be 50 feot long, 18 feet 6 extension and 11 feet high. Such a building could be laid off nicely into two mows, each 18 feet wide, and one drive floor 14 feet
wide between these wide between these mows. This would
require a corner post and two side posta at each side wall, and for a small puild ing like this, 1 think $6 \times 6$ inch would be quite sufficient. Across the end, and
at each side of the barn floor, you could at each side of the barn flor, you could
arrange to have a cross beam, also $6 \times 6$ tween the post and this cross beam at feet. The wall plate should also be $6 \times 6$ inches, and you can splice this over an feet long, and arranging to have a two tenon on this post, so that it may exof the plate.
For a building of this kind, I would roof, no matter what a sell-supporting hip already have on your log building to Make the lower part of this root with a and the upper part with a onethird
pitch pitch or an eight-inch rise. In order to
get that portion of the widt building which the lower roof will cover
it is necessen
$\qquad$ roof to cover one of these fifths, and the
upper or center roof to cover the remaining three fifths. The hip joint is
made by nailing a piece of $1 \times 6 \mathrm{c}$ inch board
on each sidl. of the Make this board aboute three feet long.
The the The ridge of the rafters are secured to-
gether by nailing a collar tie two feet lone on each side. This may be a picee
The girths in the side walls and ends
may be $4 \times 4$ inches, and of course are
tramed into poostos

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\begin{aligned}
& \text { To make fence of the PAGE } \\
& \text { high standard, we even had to }
\end{aligned}
$$ build standard, we even had to ordinary loom could weave tension so mumomy could apply foot of wire in thon-mide of rots

of fence. This spectul marhinery, built by us, can be found turning out PAGE
that stretch evenly,


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