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Section of fire-pot showing ribs ofsteelplate which save iton in 7. which saves thousands of users one ton of coal in seven.
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Vol. XLVII.

LONDON, ONTARIO, AUGUST 29, 1912. Deepening Fapms with Dynamite. The use of low-grade dynamite containing ahout twenty per cent. of nitroglycerine for removing stumps and boulders impeding cultivation on the farm has been proven an unqualified suc cess at many local demonstrations, as well as in the hands of numerous farmers employing it in ordinary use. The Farmer's Advocate of May 16th, 1912, described the results of puili demonstration Weldwood a selves since used the stumping por ourcalled in Cos as it is called in Canada, with very satisfactory effects. Boulders weighing nearly a ton have been repeatedly shattered to pieces with a couple of halfpound cartridges, costing about fifteen cents for the whole charge, cap, fuse and all. To break boulders lying out of the ground the powder is merely laid on top of the stone with capped fuse inserted in one stick, a few shovelfuls of earth are thrown over the charge, the fuse is ignited and speed made for a safe point thirty or forty rods away. It is very simple, very easy, and comparatively cheap. With proper care it appears to be quite safe. Likewise with stumps any-sized sound stump may be blown out and split to pieces by merely using enough powder, judiciously placed. Stumps, of course, can be burned if sufficiently decayed and dry. Boulders do not burn.
But it is of another and newer use for dynamite that we write, viz., cultivating the subsoil. Perhaps its value for this purpose has been most frequently demonstrated in preparing dynamite exploded ing. A stick of low-grade bar will exploded in a hole made with a crowion, preparing it for easy permeation by fashroots. For this purpose permeation by tree of say 20 per cent. is espeoially advised. high explosive compacts the soil about it and may make a good-sized cavity to fill in. Lowgrade powder leaves the soil delightfully broken ap. Anyone who has observed the effects of a
charge will be quite prepared to expect decided charge will be quite prepared to expect decided benefr forly for general cropping is dynamite recommended Sor general cropping is dynamite recommended. peared in the British and American magazines and a number of strikingly illustrated mamphes have been issued by the powder companies charges are fired in rows and the effect is as of a great cloud of earth rising in a block or wall out of the ground. The expense is not prohibitive and one blasting is supposed to last for number of years.
Without Claims of enormously increased croperience the we feel warranted in drawing public atteduction, the idea. The theory seems sound, for a soit with a close impervious subsoil is easily waterlogged, is difficultly drained and offers very adverse conditions to plant roots. The possible turect of blasting upon humus content and the
danger of dislocating tile drains are practical questions concerning which more light may be forthcoming. If practical and economical, the

## Feed the Mind.

Feed the soil that it may produce bette rops. Feed the cow that she may yield abund ance of milk. Feed the teams that they may ing and fattening stock the field. Feed the grow ing and fattening stock that they may have sur These precents to produce increase in weight n and year out by speakers and writers year even by the Farmer's Advocate itself vice is sound, but there is something. The ad important to feed than the cows or the horses the soil. It is the mind
In one respect at least the human mind is for the perience mind comprises things observed or exone's cont oneself, things observed and noted by tained in memory and general information conreflections or ideas upon subjects other people's No one of these things alone makects of all sorts. or well-proportioned grist ruminate upon his own observation andent to ence must either have a mighty small mental mill or must be running it at a small fraction of its capacity. This is true even of the muchtravelled man ; still more of the untravelled. To keep our minds alert, active and masterful, we need regular food for thought. And in order that the digested product may be a well-balanced judgment of things it is necessary that the grist be varied in composition, containing in addition the experience a large proportion of the experience and ideas of others.
Applying this to farm practice the moral is abreast of the times, and sparkling with farnals, phorous from cover to cover, is essential to the highest kind of success in farming. Apart altogether from the information imparted, such reading starts the mental gear working, rubbing off the red rust of inaction, stimulates thought; arouses ambition and incites to high endeavor Thought food is the greatest part of the value received for the subscription to a good agricultural journal. Feed the mind. It pays better than feeding the stock and will lead to that in time. The largest success is won not by the drigent hand but the active brain. These

## The Purpose of Exhibiting

 in order to bring together large and repre stantial pris it cation. Tes and to have a diversified classifithere are saral and should hav motives which the exhibitor has visability of entering hishen considering the adany large exhibition. Judging from the fact at the amount of prize money offered is more that of a determinate factor in the number of entries which come forward, one might be led to believe hat the prizes themselves were the main incentto breeders to fit and show their best anihals. True, the more compensation in awards, , irectly fule there is little or no profit accruing eded fors as much money is in expense incurred in fitang, shipping, grooming and care of the animals the mon prize so keen and thethe Farmers Advocate
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the leading agricultural jourinai in the dominion.
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point of prize on the undertaking from the view point of prize money alone. Large prizes serve
to meet to a certain extent the increased expense and therefore are a considerat
Of far more value than ths publicity gained and as an advertisement is the ions are successful from the viewpoint of the public in the ring and through the before the the winnings, which are published accounts of hroughout the land. The keener the competition the more valuable the winnings. It is this men to run the risk of trivial direct in inducing and take their best individuals to the exhibitions Hunners sell on sight and command good prices But this is not and, the entire stock is advertis before buyers through their more fortune brough and brothers who have won a red or blue at show. This brings many a breeder out who
would hesitate if such were not would hesitate if such were not the case.
Human nature likes to be honored honor to own a champion. It is an honer own winners in our closest competitions, provid ed such winners get their laurels fairly, To the man of means the satisfaction of being able to
win is worth the cost of exhibiting and he doe so partly on this account But are these all the purposes our breeders
have in exhibiting? We hope not and we know hey are not. While all these are factors, ther
is one other which is noblest above the plane of mere pecuniary gain, rises which is of prime importance to the live stock
industry. Every live stock exhibition is an ath industry. Every live stock exhibition is an edu-
cation to thousands of onlookers. Fvery breed er who has spirit enough to exhibit his sta
has the welfare of his particular breed at hea
He helieves in He helieves in it. He wants to see it progress
He knows by exhibiting he is doing the breed good It grows in favor and as it grows in
favor new herds are estahlished and more men profit by its good points. He shows for the good
of the live stock industry and for the welfare of the people. Incidentally he gains, for as people bood stock when they see it better stock, know stock industry, his business increases, but his is ers interested in the breed are heloed. The prime ers interested in the breed are heloed. The prime
purpose of exhibiting. his stock is to use it to
cducate the public. to imoress uoon them its value and to thitimatelv be of service in the advance-
ment of the industry through the establishment of

HORSES.

Crushed oats are good feed for the foab, an also for any old horses which may be noeded for
fall work, and which and all work, and which are out of condition.

Many turn their work horses out to grass whe
arvest is over, and fall cultivation is the work on the farm. All grass-fed work horses should get some hay to counteract the parging
$\qquad$
little while the brood mare is never the worse of she should not be compelled to do the a heaviest of it. Work should be a secondary consideration
Good wheat bran is
Good wheat bran is one of the safest, cheapest,
and best regulators for the horse's diqestiver and best regulators for the horse's digestive
system. A little fed with the grain ration
invaluab invaluable to brood mares, stallions, and foals.


Champion Shire mare, Roval Shoone,

hcralin
Lew stallions get the amount of exercise during,
ars in Feeds and Feeding, ". No draft horse
reise than live miles a day, should have less ex-
TCise than five miles a day, and the roalster,
.me casces should be increased to eight or ten.
Wey We are not inclined to think favorably of har-

countries in which barley forms a large part of Arab horses could horses. No one who has seen barley is the main feed of these in the land and

During the wet weather in
During the wet weather, in fall, winter or to water, slush and mud. The feet and legs are one of the most important parts of the horse's make-up, and should receive extra care. A worn each night the legs should be cleaned and rubbed
There is a direct connection between the weight of the horse, and his power to pull heavy boads the heavier he is; the greater load he is able to development, and one weighs considerably muscular han the other, the heavier horse uses his extra weight to advantage, and is able to move greater horse, but insist also on weight.
The Motive Power of the Horse
When we think of motors our mind travels to


## hampion in driving class, High of the Air

horse. 1s there any wonder that soundness in be obtained? Take any other motive power you
will, and just as soon as any import will, and just as soon as any important part
therof is out of true the result is disastrous. therof is out of true the result is disastrous.
A break occurs. The efficiency of all motive
power power depends upon the soundness of it. motive
other power will do profital, other power will do profitable work when operat-
ing under as many unsound conditions ing under as many unsound conditions as the horse is often forced to do, and every strained
ligament, every diseased lever or bone, every undeveloped or over strained muscle, every disease in short every unnatural condition, lowers the working efficiency of the horse, just in proportion to its severity and vital connection with his power generating ability.
The horse is a truly wonderful animal. Muscles work by shortening and pull, and are only able
to work through short distances. The animal is then composed of a large number of powerful maximum walking draft of a horse is ane-half the own weight, and when pulling with this intensity 1600 pound horse is able to produce five hour, a half horse power. (A horse prower is that one able to lift 500 pounds one foot per second, o 33,000 pounds one foot per minute). This would often. A pull of one-fourth the horse's weight is too great for steady work, and for a 1600 pound horse is two and two-thirds horse power, or two o King's figures. And this writer claimed that or steady work. a pull of one-eighth to one enth of the horse's own weight at two and one 1600 miles an hour is heavy enough, and for horse would be from 1.06 to 1.33 horse power. ploughing. King estimates that in travellin furrow ten inches wide and six inches deep 2.1 H. P. is required. If the furrow is twelve inches
wide it reauires $2.58 \mathrm{H} . \mathrm{P}$.. and at fourteen inches wide it reauires $2.58 \mathrm{H} . \mathrm{P}$.. and at fourteen inches
wide $3.02 \mathrm{H} . \mathrm{P}$. Then at four inchos deen a. furrow ten inches wide requires 1.44 H . P... one
twelve inches $1.72 \mathrm{H} . \mathrm{P}$.,and one fourteen inches $2.01 \mathrm{H} . \mathrm{P}$. ruired of horses in comparison with that requir
edt of other powers. measured in like terms (H) P.) for each. The immense strain exerted uno
the horso in doing his work. demands that the horse in doing his work. demands that every
nart of his svstom he in the hest possible condi-
tion. Sollandnoss. guality, vitality and muscling should be the ese. quality, vitality

This Was in the States In the rourse ni an address on "Country
Schools," R F. Harris; President of the THinois
Bankers, Asper Bankers' Association, made use of the following
striking illustration, which, it is hoped, would not "I am reminded of the district where the I am reminded of the district where the
farmers wanted to improve the breeding of their
horses, and they cluhbed together and bought harmers wanted to improve the breend they clubbed together and bought a
Sorsen, and and stallion. Being a fine horse, he needed a \& 8.500 stallion. Being a fine horse, he needen a month and board, to care for that horse. About trat time they neerfed a new school their children and properly equip them as
trat it
citizens of this areat commonwealth, and after citizens of this great commonwealth, and after
mmurh bickering and hair splitting. they hired, a irivolous young woman from town, because the
guld get her for $\$ 30$ a month, and she board
orself-and the joke was mot on the teacher."

The Vapious Hoof Cpacks. San Francisco by Robert Cilker, a student of the been published in circulary form by that institu SAND CRACKS generally SAND CRACKS.
location. They are called toe according to their curring in the middle called toe cracks when ocand a quarter crack when occurring in the horn of the quarters. There are also sand cracks of the Sole and of the frog met with, but are not plenti-
iul, and not rarely serious enough to cause trouble. The toe crack is met with more often in the hind foot than in the fore, while the quarter crack is met with more often in the fore feet, The portion of the wall known as inside and side. side of the toe is seldom affected. A crack is called complete when it extends from the crack is complete when it is not wo extensivge, and is incrack is one that occurs in the expe. A simple does not implicate the sensitive structures beheath. A complicated crack is one that is deep flammation of the sensitive membrane suche inplications may vary from a simple inflammation set up by laceration. and irritation of the sensihave


Boquihan Lady Peggy.
known as clamping the crack is usually used to be had many different kinds of clamps. There are a good calves, practice selection and use the best availis rather wide with five teeth on the side. groove is burned on each side of the crack to accommodate the jaws of the instrument and the
clamp itself pressed home by means of a special pair of forceps less the wall is moderatejy strong be put on unshould be thick. All clamps are put on for the same purpose, to try and stop any movement of Other means employed the crack.
both sides of the crack, starting about out on inch on both sides of the crack and cutting it out to the bottom at an angle. Apply an antiseptic dressing and over this cotton, then wrap the whole foot with tape as tight as possible. The
tape is used for two reasons, to dry and keep as much dirt as possible and stop the movement The wall in the region of the crack
beneficial used in the treatm one of the mos brittle feet: Yellow Wax, Olive cracked o Venice Turpentine, Honey, of each 8 ounces. Mard lard, wax and honey (slow fire), then add the rest, and stir until cold. Apply once daily.
This method is SURGERY.
is greatly complicated by the presence the crack by the growth of adventitious horn on the in or surface of the wall. When the crack on the inner tend the whole length of the wall, the best method is to cut out a triangular piece with the base
uppermost, cutting as deep as uppermost, cutting as deep as the sensitive
lamina. With the removal of the horn the dis eased structures are exposed to view. All such should be removed by a free use of the scalpel and a suitable dressing afterward applied. If the a piece on either side of of the hoof take out a pece on either side of the crack, the whole
length of same. After treatment is exactly the same as the one just referred to. is exactly the shoeing.
A partial rest is given to the affected parts by easing the bearing of the shoe at the point required. This may be done either by removal of thinning the web of the shoe in the same or by tion. Never have a clip directly under the crack or where the weight would fall. If it is a toe a clip on each side made to take its place and the same time care should be taken to avoid throwing the weight far forward. In case of quarter crack, where the constant movement of the part under the expansion and contraction of ply a shoe with clips fitting moderately to apagainst the inside of the bars. my this means movement will to a large extent be stopped.

## LIVE STOCK

See that the ram is healthy and rugged at
mating time
Sunlight and fresh air are almost as essentia in calf rearing as feed

Too much skim milk will do a calf more i

There is no better time than the present
select a pen of good breeding ewes.
The sow must be strong and in good condition is to be produced. A good type of feeding steer is a joy forever
while the scrub, no matter how he may be man aged, spells loss to the feeder

No sow should be bred until she is eight
months old and very fiten months more on her age, is more beneficial fou
ond otherwise
is Up to six weeks of age from 14 to 18 pounds age the amount to feed must calf, and after this according to the calf's constitution and develo ment.
Keep a little fresh paint on the breast of the ram during the breeding season. It is very littl ed in ascertaining the date of service of each ewe and it also serves as a check on the rams sure
ness as a breeder.

[^0]
## Factors Influencing the Breeding

 Season of Sheep.Unlike all other classes of farm stock, the There are a few breeds which will breed of sheep. year, but even where these are kept in this country, the best breeders do not look for more than one lamb crop annually. One good lamb crop is worth more than two poor ones, and one yet under good management, every breeding ewe on the farm should be physically fit to give birth yeanings, but at one. lambs a year, not at two yeanings, but at one. It never happens that all ewes in the flock have two lambs at a birth, but
a large percentage of them should have.


Chevely Modest (imp.)
during entire show season of undefeated for first prize cago International. Owned by Robert McEwen

One of the first things to be considered in turn ing the ram with the ewes in the fall, is the time The gestation beriost attended to, in the spring. ing, five month periments carried on in France of extensive ex consin, was from 147 to 152 days. Thus if the should are desired the first of March, the ram ber or the first with the ewes the end of SeptemThe outlook for feed is an important in determining the time of the mating season. The earlier the lambs the more feed required. Ewes which do not yean until grass comes require much well on about half the feed required and will do Which, besides herself, must feed one or two "husky" youngsters. Of course early lambs two ing fall than fater lambs, provided feed is plenti-
on an the feed is scarce the lamb which come with, and event pasture will very often catch up winter or early spring, under the disadvantage a feed shortage, which has given him a set-back plentiful, that is clover or alfalfa hay, good reed is and grain, perfergbly oats, have no hesitation i turning the rams with the ewes comparatively Another factor and in ways considered by beginners and careless bree ers, is the condition of the ewes at time bree vice. This is largely influenced by the time the August. Ewes in which, as a rule, should be in short pastures, and the partial nourishing lambs to a late date are not in a good state to is a profit in feeding the fore breeding them. Placing them a a fime bepasture aiter weaning the lambs, and, if necessary giving a litthe grain, materially increases the in flesh invariably produce more strong twing lambs than those bred in low vitality. Place the ewes in good condition before breeding.
Much of the success of the lamb cro
upon the ram. And whether or not he doesends tice to himself, is largely dependent upon his condition during the breeding season. It is sebdom, if ever, advisable to use a lamb, but a
good lamb is often more valuable than a good shearling or two shear ram. A a questrong lammay successfully serve a small flock, but for the sake of the ram, and the lamb crop, do not over advisable to postpone the hreeding season is often comparatively late date, and to feed the lamb well, in the meantime keeping him separated from others of his kind to encourage developvice. It is always well to put the ram in condition for the work required of him, and usually a little grain fed to him will give profitable this exercise is essential, An aged ram, Thich has become fat, clumsy and lazy, often must be reduced in flesh, and the only way to do it, is to him back and forth Halter-break him, and lead where he is kept for the night. All trams barn be kept inside a part of the time during the breed ing season. Some keep them in nights, others flock only until they have served all the with the season at that time, and shut them in again, let is called upon morning and evening. Where a ram sometimes necessary do very heavy service this is keeping him in nights and allowing him with the ewes during the day is all that is necessary. question. The busiest time for the shepherd is the flock's yeaning time. Few farms in this but look after a shenherd who does nothing else horseman, cattleman ep. The farmer is usually shepherd as well as being general chore hon and lamber of the ranch. This necessitates that the spring is the only time for the hambs. so with hefore farm the plan is to have veaning over hefore farm work commences. or defer it until


Gartly Landseer.

AUGUST 29, 1912
lambs are dropped just previous to triis period

## Preparing for the Litter.

 The fall litters are now or soon will be arrivang, least a short time before they are far them There is very little difference in the period of gestation in different gows. Observations have bone tation in different fows. Observations have borne
jut the statements often made that young vut the statements often made that young or
weakly sows generally bring forth their litters a
short time, usually about two days, previous to short time, usually about two days, previous to
the expiration of the 112 day period, which the the expiration of the 112 day period, which the
average sow takes. On the other hand an commonly robust high-conditioned sow may carry her litter over 114 days. From two to four days is not a very wide variation, so by keeping a countered, and no excuse can be offered for having prepared for the litter upon its arrival. The sow should be in the pen in which she is five, and ten days would be better pigs arnecessary that she, in her nervous state just previous to parturition, become thoroughly accustomed to her new surroundings, that she may
be contented and quiet when her be contented and quiet when her litter arrives.
Many a pig has been killed by a discontented sow, in her rambling about her new pen, and in her tossing and turning in her uncomfortable bed,
uncomfortable because she has been accustomed to unoomfortable because she has been accustomed to perhaps sought out and prepared what she intended to be the nest for her offspring in some secluded spot in the woods. Never allow the sow to ing pen. It means loss in nearly every instance Use little bedding in the pen, cut or short. straw preferred, and keep it ciean and dry. At parturition the sow shows unmistakable signs of desiring to be alone, and she should be left alone
as much as possible. During the time she is penned before farrowing handle her, scratch her back, become acquainted with her, so that in case
trouble arises during deliverance she will be used. to attention, and will not get cross and excited. Keep watch of her, feed her lightly before and after farrowing, and place a ledge around the in-
side of the pen, to prevent her from lying on side of the pen, to prevent her from lying on her
pigs, crushing the life out of them.

## An Auction Mart in Scotland

## itor "The Farmer'

Being in the town of Montrose coast of Scotland, I went on a Friday to the
Auction Mart of the Montrose Auction Co. This Company has an authorized capital of $£ 10,000$ of which about 15,000 shares are sold at 15 s . per share, of which only 10s. per share is paid
up. They have very commodious premises, very well suited for the trade carried on. There are pens for cattle, capable of accommodating four
or five hundred, besides smaller pens for sheep ard or five hundred, besides smaller pens for sheep ard
pigs. There is a sale ring surrounded by raised seats in amphitheatrefashion, capable of seating 250 people. The cattle are first driven on to the scales, which have a large dial plate facing
the auditorium, so that all the people can see the auditorium, so that all the people can see
exactly how much each animal weighs before it omes out to be sold. There is a separate door is a the cattle are driven out when sold. There he auctioneer's platform. I. saw fat bullocks minute a time, and I don't think more than And the auctioneerctold me that he bad sold two per minute when the bidding was brisk. I saw
quite a number of cattle suld that we would call just medium. fat. Many of them, running about 1000 , were sold at from $£ 20$ to $£ 24.15 \mathrm{~s}$. and
those weighing 1200 , from $£ 25$ to $£ 28.10 \mathrm{~s}$., of those weighing 1200 , from $£ 25$ to $\begin{aligned} & £ 28.10 \mathrm{~s} ., \text { of } \\ & \text { course their cwt. means } 112 \text { tbs. } \\ & \text { Some year-old }\end{aligned}$ steers, good thrifty fellows, were sold at $£ 9.10 \mathrm{~s}$. each, eight of them weighing 4,100 , six store steers weighing 54 cwt., sold for pound for selling. This pays auction fees, storage and all charges. The Auction Co. pay the auctioneer a yearly salary, and they collect all
the fees that the auctioneer earns in conducting the fees that the auctioneer earns in conducting
other sales in the country, during the other days other sales in the country, during the other days
of the Foek. In some years tre auctioneer has sold at the mart, as much as $£ 165,000$ worth of
live stock. live stock. This method of doing business seems to be very popular with the farmers, and the
majority of them bring their live stock to be
sold sold. The auction mart is beside the North
British Railway Station and British Railway Station, and I went out im
mediately aiter the sale was over, and found cars already loaded with cattle, that had been bought at the sale, so that the whole business is done quickly and expeditiously. The Auction Co. col-
lect the money for the cattle sold, and pay over to farmers the price of their cattle, less the othee
pence deducted as fees. Fence posts and ot commodities used on the farm are also sold bv the which they rent to grain merchants, and ofthers who do business with farmers; as practically all he farmers' business is transacted on the
luttion Co's. premises. I might mention that a

THE FARMER'S ADVOCATE
there. These were not driven the day that I was and excessive immediate individual production are hut the These were not driven into the sale arena, produced at the expense of constitution, which is sold the animals. It might be asked does and only another word for vigor or vitality, each sucauction business pay? The auctioneer told me ceeding generation, no matter what the class or that the company had paid a dividend of $7 \frac{1}{2}$ per what the breed, must suffer, and the longer such cent. per annum for some years. Why cannot a policy is carried on the weaker and more detricts co-operate and build auction marts, and effects may be scarcely noticeable, but as this sell their live stock in this way? The butchers kind of breeding is further pursued the evils grathey are saved a the system very much, because dually become apparent. Persons who have over the country looking for stock, as the stock come to the definite conclusion that in every anv is taken out to be sold and they can get it for mal there is a correlation of parts. Certain orsale arena and quite I might mention, that the gans in the body are in very close and intimate pens are roofed quite a large number of the cattle relation with certain other organs, and a modifpens are roofed over, but a number of the pens cation of one has a marked effect upon the other.
are open.
D. L. The vital


Oxford Viscount.
English Berkshire boar, winner of many first prizes.

## Vigor and Vitality in Live Stook should be exercised in Husbandry. stock. When the machine

What is vigor? What is vitality? Vigor is sometimes defined as something essential to or supporting life and vitality as the capacity for maintaining life. Too often this capacity is looked upon in relation only to the present life of the individual animal and not as it should be parent and all future blood lines emanating therefrom. Vitallty or rigor, whichever you choose to term. Pedigree peculiarities, color sense of the characteristics, economic production, too frequent pericds of parturition, scanty feeding, over-feeding, and a host of other factors, are at work today, not ahways improving, but often materially race, or breed as a whole.
Vitality is the next thing to life itsele must not he sacrificed to meet immediate aims without weighing carefully the result in years to
come. When fancy pedigrees, extremes of quality


Prince Blueblood of Ballindalloch
First in ared cla Ballindal


Highland Buil.
vigor proved a boon to his get, the result of his
being crossed on finer females being crossed on finer females
basis of all market classifications of all farm real stock is utility. Breeders in the past have shown an unmistakable tendency toward the pro-
duction of animals suited for market demands. duction of animals suited for market demands.
What more could be expected? The beef animal which on the block showed the largest percentage of valuable cuts gives the most immediate profit. Butchers want as much meat and as little bone as
possible. It seems to matter possible. It seems to matter not what the dairy
cow can claim in the way of a robust constitution so long as she fills the pails with high-testing milk. Immediate gains are most attractive to people generally, and naturally so. True, there often appears to be no imminent danger of to suit the market demands, but if persisted in indefinitely the result may not be so favorable. At the present there is noticed among feeding steers many which suit the butcher admirably,
but which have not the rugged constitutions, feeding capacity to give best returns for feed consumed. $\quad$ Some dairy best returns for feed
con the country which have been literally "stuffed" to make and break records have proved unsatisfactory breeders
The excessive stimulation of one characteristic cannot, when carried beyond reason, have other than a detrimental affect upon the remainder of the body of the animal. Thus constitution, vigor or vitality suffiers with a far-reaching result upon Vigor is valuable
ages of disease among animals are a great loss to stockmen. Disease-resistant animals are those having greatest constitutional vigor and consti-
tutional vigor is largely hereditary tutional vigor is largely hereditary. Therefore,
vigorous stock means healthy stock and few losses.
Breeders have the matter in their own hands. Experienced men need not be told the indications olance and prepotency, liey see them at a of body or "character" in the animal is from breeding standpoint absolutely essential if the value of the race is to be enhanced. This year's gains and ne the prime influence in breeding. Callculate carefully every phase of breeding and what each move means to future generations and the ultimate outcome of the breed and constitutional vigor craze fad or demand.

I should like to expre
The Farmer's Advocate
Klont of …) pul work better than your
able-a most wholesome influence
to you, altogether.
Lambton Co., Ont.
With silo filling and threshing coming on righ together, there is likely to be a Septen
mand for more help than is available
would it be to run a ferv harvest excursions dow from the West?
sow is in good condition she will show oestrun in from three to seven days after the pigs "eared, and this is a good time to breed her. If he is run down in condition and not thriving she may not show the period of oestrum, and breeding until she has recuperated. To promote oestrum many have had good results by feedin disually peas or some other strong grain feed Tisually as soon as the animal begins to gain in
flesh these periods

Pigsty vs. Pasture.
The greatest stumbling block in the pathway bilities of pork production is the old possipigsty," writes Dr. Geo. M. Twitchell, of Main in the Massachusetts Crop Report. "Habit is ined. The its imat can become either a lucrative ber pork making tive industry. It is one of the relics attrac times to which New England clings tenaciously Pork may easily be made the cleanest, sweetest turally the hog is one all the meat products. Na so that in judging the industry it must be from
the viewpoint of the man who conforms to demands and conditions of to-day
utilization of pork production hinges upon the herd and the cutting ops, the pasturing of the The problem is, can this be made effective grain. tual practice as in the west? Here is the acof the whole situation. Fortunately, we have the experience of a number sufficient to maintain
the claim. the claim.
a herd on an acre sown to rape, clover pasturing of ley, at the rate of 3 pounds of dwarf Essex bar7 pounds of red clover and one bushel of barle issionernced that the plan outlined by Com yearly by him is mactice sure better results. Mr. Huson divides this acre into three or four paddocks, with movable hurdles thirty inches turns onto that in early spring whe in one and thrive wonderfully, By the time it. -is the shoats but not eaten too close, the paddock of warm, is read spring, as soon as the ground is one of oats and been fairly eaten down the rye will these have again and matured a fair crop of have come kernel of which will be utilized. Naturally every will be modified from one paddock to another sults obtaining when excessive ions, the best re by changing from one to another and is checked watched to see that it is not eaten too close be course the amount of ground demanded will this process of supplying ther of hogs kept, but cheapest food possible is so simple healthful and commend itself to every would-be that it must March pigs grown in this way should be ready grain to be carried along steadily, and finally finished in short order for the early market. Fy side the paddocks and pumpkins, grown alongeconomical food to be obtained, reducing cost of lar, while insuring a fuality fo the lowest dolble to mature in close pens or with swill-fed assiclaim that one has but to establish himself the
clate


Kauling Gravel by Locomotive Traction on Oxford County Roads
this industry, by some such plan as here outiined thods of pigsty or barn-cellar growing, and ad vertising a healthy product made only on forag crops, in open pastures with home-grown grain in order to insure a permanent market at ad ness of the product, and freedom find cleanli ble taint from impure surroundings and stale swill feed, will attract buyers. It will be under stood here as everywhere that an abundance of if possible it is best to equip a field in and poxsmity to a brook or within easy access close water supply. In this way the labor item dur- This year it will be complicated by grain threshing, with which in many districts it will coin-
cide. Hard work it is, but pleant cide. Hard work it is, but pleasant, as the rank heavily-eared stalks-perhaps they won't be so
heavy this year-are hauled load after load to
the ensilage cutter, chopped to inch or three uarter inch lengths and blown into the cavernus inows ill rood cattle foods is fairly incredibleapest of who has not seen silos filled. Corn, we have just remarked, is our cheapest good cattle food, and the sioo is our most economical as well as our best. means of storage. It is most economiit makes a busy September, but once the True filled, one has his corn-cutting, shouking, husking, grinding, stalk-cutting and mowing away all completed for the year, so far at least'as the ensiled acreage plished in a short space of time, Much is accomready to throw out and place before the cattle with a minimum of labor. A great wealth o satisfaction comes out of the silo all winter long
But let us to the practical. WHEN TO FILL
Accumulating experience demonstrates the folly of worrying over-much about freezing. If cut and ensiled soon enough to prevent much waste of ary white frost. If it gets too dry water may be added. Comparative maturity is very desir able. For best results in feeding either beef or dairy cattle, but especially the former, the corn should be cut have begun to turn brown.

The corn may be cut by hand with hoe or sickle or by horse power with a corn binder or sled. Hand cutting is better adapted to hil available at two dollars a day or less there is much in favor of cutting with heayy-bladed short handled hoes. With one of these a good man can in a acres of any straight-standing hill corn ches. Last year at Weldwood our corn had been ady beaten down by an uugust storm, yet six teen acres were cut in about 85 hours at a cost the field was cleared its close stubble was the adcut quite so close with the sickle or corn binder hough on smooth soil the latter can get down airly well. The binder has the great advantage ion to handle corn bound and therefore in condition to handle quickly and feed freely through the per cent. more bound than unbound corn can be run through the box in a day, given the men and the stalks it there. This is particularly true ii the stalks be crooked. Whether the advantage
here compensates for the greater cost per acre of here compensates for the greater cost per acre of
cutting, the undesirability of having twine in the shage and the loss of stalk left on the field, each man must decide for himself. Where help to cut by hand cannot be had at all, the question, of sirable to cut within two or three days of filling this is not necessary. Some of the corn may be cut a week or two ahead if need be and mixed in
filling with the frech-cut corn silage with the fresh-cut corn, making excellent into the bottom of the silo, though last year we reffled our silo with shocked and ripe green corn
load about and had good results. Sand on the corn caused by rain while lying on the cround is
undesirable, bit a little clay will never he noticed when the silage comes

PREPARATIONS FOR FLILING good time. If water can be rum directly to the

## THE FARM.

## The Use of Lime

ndicate that on many Towa sils alfalla tests on alfalfa fields is to be recoins the use of lime hication has in many cases been very berecila any rate no harm can come from ablica an of irom 1,000 to 2,500 pounds of lime cround limestinury if this be in the form of finely is decidedly preferable screenings, which a number of co-operative tests the applat

## SILO FILLING - SOME FIGURES FROM WELDWOOD. <br> uebec silo-filling is the farms

troughs it will often be economy to supply jt that dollar an hour. With an averrage hacity at a Way. Before commencing to fill, arrange if pos- three-eighths or even half a mile four haul of say wet the walls inside, especially or otherwise to will usually be sufficient for an ordinary outat ment. Otherwise juice may be absorbed from the


Pipe for Distributing Cut Corn in Silo. corn by the cement wall drying it out and caus FILIJFG DAY of the outer layer. FILLING DAY-MEN AND TEAMS NEEDED. exchange of labor or by hiring
tion of lime was absolutely essential before alfal fa could be grown successfully, indicating that
the soil was strongly acid. In other coses a satisfactory growth was secured without while use of lime, its use gave a more vigorous gruwth nd better color. amount of calcium, which is the growth a larze of lime. Also, alfalfa cannt active prisitiple soils which are at all acid, owing to the fuc, , 1at the nitrogen-gathering bacteria which tive upon its roots, and upon which in urn the atilin'fa or its supply of nitrogen, cannot live, thrive and multiply in an The gang in addition to engineer and feeder should include about eleven or twelve men, distrithe teamsters unload, four or five ine helping field loading and two in the silo. It is well for things and lond to keep himself free to over-see ed most. Towards the last her it may be needself best. as a third man in the silo. dispose himson fiel may cut with hoes when for any rea son operations, are arrested. While changin men round judiciously so as to ease those in hard keep a sharp oversight of everything system an xample are usually all that is called for, but ometimes drive is necessary as well. LowWhere the corn is laid hake loading easy the ends should be filled first and centre last. year ago a corresoondent suggested standing tied sheaves upright in the rack, claiming it enabled The idea looks hoads and also to unload easily.

FAST OR SLOW FILLIN
the best silage is made by scientists wheslow. As a rule economy demands rapid filling arl silage can be made that way. We heve and it was made on the principle of last year corn packed into the silo as tightly and rapidy as possible. The last foot of it is being fed out gummy with accumulated juice, but fragrant petizing and nutritious, without any trace of that swilly condition sometimes found in the bottom
of deep silos. Perhaps the of deep silos. Perhaps the drain may have had
something to do with this. distributing and tramping the corn One of the important points of ensilage prac-
tice is the distributing and tramping of the corn. In this connection we might mention the matter, of length. We prefer three-quarters of an cut the the filling. There should never be the slower twe filling. There should never be fewer than


Sprucedale Farm
Home of A. Watson \& Sons, on Talbot Road, five miles west of St. Thomas, cnt


## An Australian Farmer's Wool Going to Railway Station

bute the corn uniformly, keeping leaves, stalks may be, there are no two opinions about the de
and ears mixed in a uniform-settling sack or jointed pipe is necessary. No device which does not reach close down to the bottom ing to one side. The ideal thing for the futteris the pipe illustrated and described in our issue of May 2nd. For the information of new readers
and old and old ones who may have mislaid their copies,

The hood, which fit
pipe, has an which fits over the mouth of blower is reinforced with two bands of iron square, and vided with a. pair of ears placed near the poper corners. Through these pass the ropes by which the pipe is suspended. The second length tapers rameter, and is five feet shape eight inches in dibelow that. The regular lengths of pipe are about nine inches in diameter at the upper end, and eight inches at the lower end, thus giving pled with rings, chains and snaps, as are cou After the two upper turns, they are placed the quarter turn, so as to make it more easy to bend the pipe in any direction desired. O course, the bottom end of each length fits loose is into the top of the length below it. The hoo galvanized iron, most of it being No. 24, while the back was still stronger (No. 22). The round sections of the pipe were constructed of No. 26. To erect this pipe, attach ropes to the hood after length. The bottom one mang on length ten feet clear of the floor, and may be pulled around for a time by means of a rope, until the silo has been filled a few feet, after which it may be conveniently led around by a man holding it By way of suresting imp or lower on experience, we would propose having upmouth only 12 inches square. Bropose having the extra heavy metal for the hood, particularly the back of it, and do not forget to have the chains of successive lengths placed on the quarter tu
The cost of this pipe was fourteen dollars.

TRAMP! TRAMP ! ! TRAMP !!
Excellent though the distributing pipe is, it will be found a mistake to make it take the place
of a second man. At least one good active tramper (not tramp) is needed to keep walking over the corn and especially around the outside pressing down with his foot next the wall. Some advise
the use of a cement rammer, but we doubt the advantage of it over tramping. It is generally advised to keep the outside higher than the centre. The writer of this article is frankly skept cal, having been always inclined to the opposite
opinion, arguing that a convex layer on settling opinion, arguing that a convex layer on settling
will press outward against the wall whereas a concave layer would settle away from it, leaving an air space between the silage and the wall, es-
pecially near the top of the'silo. However this

As the tramping the edges well
them with tar paper in place it is well to fit smoothly, the edges of the wardly. Chinks or holes in the walls may be PRotert clay as one comes to them.
PROTECTING THE TOP-WHEN TO COM
When the WINE FEEDING.
feed. Unlimited quantities the corn is ready to cattle for the first week and by be allowed the ing the surface layer very little waste will be be tailed-none at all if one can use it fast enough Last year we finished filling on October 7 th. lest of Maymenced at once and continued till the ly conclude with about the date of will finalDuring this period of 280 days or so this 150 ton silo has supplied an average of about 25 Even though mostly cows.
it is often well to feed a few feet the feed badly then leave the silo, as the spoiled layer will and much thinner than when the loose top layer is all exposed. When it is not desired to feed at ears off the last few loads and is to pull the thirty barrels of water may be put on twenty or claimed this will help to seal the surface. Whether to tramp or not after filling is a
question. Some claim it is better not to tramp
then, as tramping would disturb the jelly-like


State School Bee and Garden, Balingup

Cattle at Tank, Newmarracarrn,

Alinion of Canada possessing figures of the Dominion of Canada possessing figures of 1.81 per
square mile, a close second. When it is considered that Great Britain owns to figures repre city of inhabitants in both the Dominion of pau da and the Commonwealth of Australia may be appreciated. A feature, however, upon which 95.06 per cent. of her population are either that tralian born or British. In any other British country than Canada, the of which Australians speak so glibly. An area o ndication of that which is to follow when the reat southern Commonwealth is under discussion. Her climate, one of the finest in the world, fas o place for the tropical, the temperate and subher large cities, during the history of in two of has the temperature dropped below freezing point and as 27.7 and 27.0 degrees Fahrenheit are absotively, it will be in Hobart and Victoria, respeccold confront the dwellers in the island continent That her climate is one of the best, brightest and most healthful in the world, is amply borne ctt Ney her death-rate, which, with the exception of figures per thousand of population, New Zeane 9.2, Australia 10.2, England \& Wales 14.7, and Russia 30.0 , speak far more eloquently and convincingly than words, and will support the con general salubrity of climate, thet of Austral leaves little to be desired
By reason of her geographical position and the absence of striking physical features, Australia is far less subject to extremes of weather than are regions of similar area in other parts of the
globe; and, latitude for latitude, Australia is more temperate. Thus, in parts of Europe, Asia and North America, winter blizzards alternate with summer heat waves. In Asiatic Siberia, the and winter is no less than 171 degrees, and in North America 153 degrees, or about double the Australian range, which is only about 81 degrees. Thus it is that, in the great farming districts of
Australia it is hardly ever necessary to house
live stock, while people can live comfortably in cheaply-constructed houses which would be considered almost uninhabitable in countries where From North gos. From North to South, and from East to West miles, respectively. Her coast line, exclusive of ninor indentation, measures 12,210 miles. As egards the general appearance of her land sur face, Australia may be described as a plateau, carly days of the settlement of Australia, it was thought that the interior of the continent con sisted chiefly of desert plains; as settlement proressed, however, it was discovered that thi rea contained Although Australia is pre-eminently a pastoral country, the value of the returns from the flocks nd herds far exceeding tas from any other in industry ne be considerable importancers and anging by the great advance in recent years, bids air to occupy a still more distinguished place as factor in Austratian weath. In we vear 1890 hushels, a steady advance of nearly 100 per cent. o the vagaries of the season. The industry
now approaching the $100,000,000$ mark.

In Australia the drouths will probably ever remain, but, with reasonable care and the proper looked without redeeming features, but by no means evils the provisions by which nature enables the soi to re-establish those properties which have been exhausted during a succession of bountiful seasons. The beneficial effect of resting the soil in
times of drouth is shown by the rapid recovery, by the increased fertility, and by the abundance of the harvests in the seasons immediately following the drouths. Next to wheat, the hay crop is the most important in the Commonwealth, over 20 per cent. of the cultivated
area being under the crop. In other countries the hay is principally made of other grasses, but here it is found very profitable to use wheat and oats for hay-making, yield per acre being from
two to four tons. Barley is also used to two to four tons. Barley is also used to a less
extent, and iu New South Wales and Queensland excellent hay is made from lucerne. Root and tuber crops of all sorts thrive excellently in the Commonwealth, but potatoes and onions are the vine flourishes in all the States on the mainland of Australia, but vine-growing is carried on most extensively in S. Australia and Victoria. Excellent raisins and currants are also produced in the
other States, but until recently no statistics collected. Sugar-cane is grown in New South Wales and Queensland, and minor crops, such as tobacco, hops, grass seed, millet, coffiee, cotton Dates and rice also flourish and olives generally lent quality are grown in South Australia. In Papua, transferred to the Commonwealth Sept.
1st, 1906, there are considerable areas of rich 1st, 1906 , there are considerable areas of rich
land, which may be acquired by settlers on easy terms. The most reliable and lucrative planta tion industries are para rubber and cocoanuts,
but all sorts of tropical fruits, fibres and spices, but all sorts of tropical fruits, fibres and spices, in addition to many valuable drug-vielding, plants,
have been proved to thrive to perfection.
The briefest reference only can be made to the is capable of tucing For land, excellent pineapples, bananas, mangoes, cus-


Farm Scene, Northam, Western Australia
tard apples, granadillas, and other tropical fruit sean be grated from the English cereals fruits and flowers will grow, and many that in England are reared only in greenhouses. Oranges and lemons are also grown, equal, if not superior, to anything that reach
Covent Garden Market; while grapes, peaches Covent Garden Market; while grapes, peaches
apricots and nectarines are produced almost anywhere in Australia in the open.
The fact that Australian hens have made remarkable records in egg-laying competitions serves
to indicate the suitability of climatic and other conditions for poultry-raising, and in wheat districts many farmers make a considerable sum annually by breeding turkeys. The poults rarely die off, as they do in districts where, during their early stages of life there are heavy dews.
In every State there are good cold-storage depots to which eggs may be sent when local markets are glutted. The charges in such cases are purely nominal. The system of egg-circles has tities of eggs are forwarded in refrigerated vessels to the British markets, where they realize good prices.
Bee-farmi
Bee-farming is a successful industry in New ous flora is rich in nectar, and the quantities of honey stored in single hives are astonishingly large, sometimes reaching 400 pounds. square miles of the southern section 90,540 Guinea, and lies wholly within the tropics, and, to men possessed of moderate capital, offers unique opportunities for the profitable pursuit of large areas of some of the richest agricultural lands in the tropics, easily accessible by good harbors and navigable rivers
During 1909, slightly over 29 per cent. of the the pastoral industry, which was contributed by resented $\$ 250,000,000$.
in the perhaps needless to remark that Australia, of her production from the sheep-breeding indue try, far exceeds any other country in the world. The sheep flocks of Australia exceed 90 millions, the only other countries which approach
these figures being the Argentine 67 millions, and Russia, with 61 millions. Maize is now grown extensively in all the States. Under natural conditions, from 60 to 80 bushels per acre are often produced, but, under irigntion, and in certain districts favored with commonly hammer rains, 120 bushels per acre are grain harvested in Australia is used for horse which but, with the growth of dairying, this crop which can be depended upon to produce 20 tons largely availed of Large areas 'in the interior of the continent which, be it remembered, is by no means a desert as was once popularly supposed, have been proved suitable for the breeding of cattle and
horses Indeed, the possibilities of this portion of Australia have, so far, remained almost unde veloped. Even when fed on the natural herbage
of the country, the Australian horse has been of the country, the Australian horse has been
found to possess a remarkable degree of and endurance, and these good qualities of speed greatly enhanced by careful breeding. Little need be said in regard to the capacity of the Common wealth for the production of high-class racing
stock, in view of the world-wide renown gained

ГHE FARMER'S ADVOCATE
hy many an Australian race-horse. Pig-breeding dairying, and for reasons best known to the farmer, does not receive that attention which is
so generously conceded to it in Canada. The numbers fluctuate considerably, and for the last year for which figures are available the last
765,137 as 765,137 , as compared with well over a million in
1905 . Realizing the importance the pastoral an
agricultural industries are destined agricultural industries are destined to play in
the development and prosperity of the Common wealth, and the enormous extent of land stil available for settlement, the Australian Governand intelligent manne
In each State there is an alert Department o Agriculture, in which a staff of competent and farmers and stock-breeders to cope with ans any matters whatsoever that affect cope with any In every possible direction that a farmer may re quire advice concerning his soil, sed, manure, as
well as the marketing of his produce, ready, and competent advice is placed at his disposal free of charge. There are also large numbers of farms throughout the continent, conducted by the Go the district in which they are the guidance farms are open to the farmers at all times. cursions are arranged at frequent intervals on th order that formers a extremely low fares, see for themselves the results following the and of new kinds of machinery, or of new methods of country or handling crops. In practically every belt there is an agricultural society, hundreds which receive substantial subsidies from their repective State Governments, with a view to enucts and machinery. attendance of 70,000 people is large shows, a daily will afford some idea of the importance attached An Australia to anything likely to advance the inFor the training four agricultural colleges and thirty-twe are mental farms, occupying a total area of nearly live stock of every description-from dairy stock to ostriches-are grown and cared for by those
undergoing training on scientific and practical farming.
In addition to the foregoing, there are well established Farmers' and Settlers' Associations, al considerable powerful organizations, which have natters of importance to farmers and others. has been thirty years past, the dairying industr while within the last few years the strides it has rapid developmentile short of phenomenal. Th the principal of which being the fact that in Australia the climatic conditions do not necessi tate the winter housing of cattle, save in a few instances. expense of providing stall therefore no tion for his herd during the winter, while stall feeding is almost unknown. With the introduc factory the cream separator and the spread of the
fastem, the dairying industry has vanced by leaps and bounds, so that at he the ad ent time large areas once given up to general agriculture have been devoted anmost entirely to
dairying. When Captain Phillip dairying. When Captain Phillip established the
settlement of Sydney, N. S. W., in 1788, the live setlement of Sydney, N. S. W.,. in 1788, the live
stock consisted of one bull, four cows, one calf
and seven and seven pigs. At the end of 1909, the dairy the total number of all cattle being $11,040,391$ During this latter year, Australia produced near one hundred and sixty million pounds of butter which found a ready sale in the London markets, . The chief branch of Australia's dairying industry is, of course, confined to butter. Cheese and deemed of considerable importance, the former be who an important feature winufactured in the last statistics are available, $272,212 \mathrm{cwt}$., valued at
upwards of four miltion do prosperity of Australia
is that about one person in every three of the whole population owns a banking account. Taxation with our remote kinsmen is extremely light,
in comparison with other countries, and, in the case of farmers, practically insignificant, there beand no King's ta
The mileage of the Commonwealth railways is 17,432. The longest journey which can be undernatta, in South Australia, a total distance of 3,303 miles. Two transcontinental lines are
under consideration. Working plans and specifications are being prepared, in order that con-
struction may be commenced as soon as Parlia-
mentary sanction has been obtained east and sanction has been obtained. The line Australia, with Port Augusta in South Australia:
whereas will conne line extending from north to south far north, 100 miles from the coast Un to the present time, seven hundred million dollars have seen expended on State-owned railways in Aus-
tralia, and the policy is to keep the freights low. so as to simply defray working expenses and pay about $3 \frac{1}{2}$ per cent. interest on the capital inCealand, the railways are not run primarily for Relative to population, Australia occupies


A Beauty Spot at Blair, Waterloo Co., Ont
Showing mill dam and the old-style water-wheel tower
the world. Her trade imports and exports of nhabitant, according to the last available statistics, places her fourth among nations; while, if
allowance be made for the transit trade of, iflgium and Suitzerland, she would doubtless occupy a still higher position. It is again interesting to Note that, in total trade per head of population, the world, with an average of $\$ 172.56$; Austrylia fourth, with $\$ 123.9 n$; Canada sixth, with $\$ 110$; Great Britain, $\$ 97.92$; Germany thirteenth, with
$\$ 54.54$; and United States fourteanth, with $\$ 34.40$ The volume of its external frade is not wecoscelt $\$ 34$. an unequivocal test of a country's prosperity, as
the total may be obviously affected by vnrious the total may be obviously affected by varinus
factors; nevertheless, an impartial sufvey of the factors; nevertheless, an impartial sumvey of the
general characteristics of the Commonvealth's trade will show that there has been rapid and A gratifying feature in connection with Australian trade is the extensive dealings she has
with her own kinsmen in all parts Thus we find that she buys bome 75 per cent. of
her imports from the United Kingdom and the her imports from the United Kingdom and the
Prit ish possessions, and since the year 1891 Canada's contribution to Australian requirements has ter imports includeds of 500 per comt. These latfish, agricultural implements and machinery, capital oi Nes, South Wales, situated on the inthe length and breadth of the korld for its ingout less beauty, has a population of 600,000 , and agerecate entered tonnage being upwards of six millions for the year 1909. Thus, the shipping business of the port of Sydney exceeds that of any
port outside the United Kingdom; whereas, with
Gireat liritain it is liverponl, Tyne it is exts, Cardiff, and Southampton, Iittle more than the fringe of Australia's pro-
ductive area has yet heen touched. Of her 1.03 ,
land bed absolutely. The settler may purchas ments upon liberal terms, viz. : The settler mulreside upon his holding and fulfil improveler must ditions of the lightest nature-conditions insertel come of guarantee that the occupier will be reasonable effiort to make his holdin making a The maximum area which a settler may selectig cordinanuer varies from 200 to 2,560 acrect The purchase situation and quality of the land dollars upwards, and the promment and a hall tended over a period of from twenty to be ex years, the annual payment ranging from 15 cents per acre upwards. Under the Closer Settlements And working men may acqus Act, farm laborers near the centers of work, and money is advanced them by the State Governments on easy terms to of assisting settlers in erecting For the purpose carrying on improvements, financial aid is an dered in all the Australian States. Money ad vanced for the purpose, together with 5 per cent.
interest, is usually repayable by half-yearly in-
stalments within thir sages are offered by some of the Seduced p deesirous of settling on the land, and others who can satisfy the Agents-General in London that they will make suitable settlers, together with Australia owns State railways and State tram ays or street cars, State telephones and teleor the encouragement of various industries, and monwealth bounties are offered.
Sea-borne traffic by coastal vessels pomimportant part in the transport of the country as can be understood by anyone with the most cementary knowledge of the Island Continent. and of the 138 vessels owned by the eleven largest coastal shipping companies, a gross tonnage of
nearly 275,000 is represented. It may be explained that many of the vessels are magnificent nd last-going steamships, as well appointed and as sumptuously equipped as many of the trans-
Atlantic liners.
ROBERT WILSON.

## Saving Next Year's Seed

distance away seeding time may seem a long the sean and this is in Old Ontario, the harvest. In some localities good, thus providing the this year is unusually good seed. Usually the opportunity of securing seed from one's the practice is to select vicinity. Such seed in its from one's own learned the ways of the farm orn mute way, has and starts out better prepared to cope with portant purpos grain to be devoted to this imso marked in should be placed either by itself or by itself and the grain placed in may be threshed separate from other grain. A little foresight in spring, and may save a great deal of worry next the next harvest is way for better things when fust now is to secure the seed important thing there is no time like the present this work seed and the straw and the soil and the has the be able to quirements. No other time of mest meet his resuch advantages, and no fime of the year affords
hin should who values a full in should rest content with any test of seed In securing cood seed any one of these features. ng everlastingly at it is the vigilance and keepurther, anyone who has a good field which ed grain that irom weeds, and which has producawes it to himself and to his neighbors to suality, actual cash will more than par hime returns in time and labor expended. An advertisement of such sare to arrest the attentioner's Advocate will be trate and able to pay a price that will who are Particularly important is it that he fold.
should save his purposes. This second crop of clover for seeding the utmost attentivencess in search gone over with should be harvested and threshed with the same
careful dilimure fair sample should we when the seed is secured a dentulture at Oltawa. If it passes the povernnent test the farmer need not fear to advertise en trom movions w. arring good seed that is fwamls' smentin ered seeds goes a long distance Which sherring one of the conditions upon



Sóciety of the Young
of the land was in hay, much of it being old seed- fresh air and favors letting the cows out in the ing, but some 200 tons were harvested in good yard every day for an hour or two for exercise corn and potatoes. The oats are a good crop, A portion of this crop was sown on sod and in one field where a part of it had been fall plowed and the remainder left until spring a distinct difference could be noticed, the crop on the fall spring plowed land. The potatoes were planted with the planter, have been well cultivated, and have been sprayed with Bordeaux three times. per acre when the potatoes were planted. twenty acres of this crop are now showing the effects of good care and promise a large yield The corn is not so good, but the season has not been favorable for this crop, and the rush of son, has retarded cultivation and growth. seaMost of the land is badly infested with mus tard. To combat this troublesome pest spraying with copper sulphate solution was extensively tried this season with iavorable results, the mustard succumbing to the treatment while the grains
showed no evil effects. Dr. Mitchell was very much impressed with the success of the very ment and it is to be carried on in the future until the weed is brought under control.
The rotation which Mr. McCrimmon proposes tivation is a three-year shift brought under cul hay, with potatoes or corn the third season Such a rotation, together with the manure from the pigs, cows and horses kept, cannot but intime spell annihilation to land and at the same orn and roots are to the mainsts. dairy herd of nearly forty grade Holstein for the At the present time three frame silos are in use one 14 feet by 16 feet, another 14 feet by 25
feet and a box stall 14 feet by 16 foet feet. While good satisfaction has resulted from keeping the silage in these, they are all to from place to one large cement structure to be located be remembered that o the new farm. It mus remembered that a large dairy herd and
number of swine have been kept at the institn tion for some time previous to the purchase the farm proper.

The dairy herd DAIRY HERD.
o-date principles, being fed on the latest up round, milked regularly fed liberally the yea cow. From eight to ten of the most promising which they have been kept previous to the buy ing of the farm is equipped with steel stanchions is cemented throughout, the cows standing bach
to back, is light, whitewashed and clemn in particular. A stove and hot tached to the water system and artificial heat as well as hot water, provided right in the stable The herd is now kept on the farm, where, in one ly modern underground stable is to be installed with an abundance of light and every device to prowote the health of the cows. Under present
conditions the cows get their water from bowls conditions the cows get their water from bowls
in front of them. These have proven quite sat in front of them. These have proven quite sat
isfactory, but Dr. Mitchell is a firm believer in

One of the best fables at the institution is a large underground root cellar With capacity of 5,000 bushels, divided by plank with its own opening, through compartments, each and each having in the center a square ventila, tor ( 1 foot square), bored full of inch holes about six inches apart from center to center. These ventilators extend up through the top of the celing to the roof. This system has been found keep the roots in good condition and no throwing back or second handling is necessary. To make superintendent deems necessary is a raion all the floor to allow of a circulation of air underneath With this done, no better root-house could be desired, as drainage is now complete, the cement floor all sloping to the center and front, so that POULTRY RECORDS.
The poultry is well-housed, being kept in one square, open front houses. This twenty foo feet high in the center, has a window five fee high in the west end and a two-foot wire screen north side is boarded up south side, while the cracks battened. In this house last winter the Junperature fell to 30 degrees below zero, yet June-hatched Wyandotte and Bulf Orpington pullets began to lay in November, and from Decem
ber first to March 31st about produced two hundred and thirty-nine doze these laying steadily throughout the coldest of the weather. The cockerels were fattened and sixtymany dressing over six pounds each. 370 pounds, many dressing over six pounds each. This was sults are lonked for with greater experience. Be-
sides being a credit to the
in front of them. These have proven quite sat-
isfactory, but Dr. Mitchell is a firm believer in
well for the type of house which, by the way
has a cement has a cement floor.
HOGS AND THEIR HOUSING.
The piggery is one to be proud of. It is 140
feet lony and thirty feet wide with teed down the center and pens on either side alley
doe pens andi troughs are cement, but each is fitted with a plank-floored elevated sleeping place anl ten of the pens have the high sleeping apartments
built upon the built upon the partitions, plank-lioored, and en-
closed with wire. These have been found entir 1y satisfactory and are called the pir "partrir" -a real drawing-room which is not intended for Iuxury alone, but is a great saving of space. Eacl pen has a cement-partitioned and cement-floore
outside apartment for feeding outside apartment for feeding pigs, exercise an
ketting fresh air. The feed room is situated above the pigs, and in the centre of the pen a stove i built in with cement and brick and furnishes arti
ficial heat through stanm ficial heat through steam pipes connected with th
water system, as well as being a source of warn water for winter feeding. Almost perfect vent lation is secured through over twenty verfect ventil The manure is wheeled away some distance from
the pens and dumped over a bank, so as to the pens and dumped over a bank, so as to avoid
any odor in the thens. The brood sows, forty in
number, consisting of Yorkshires and Berkshires eny odor in the pens. The brood sows, forty in
number, consting of Yorkshires and Berkshires,
run in a paddock near the pirgery. Young pire run in a paddock near the piggery. Young pigs
are sold off the sows, as much as $\$ 1,600$ being are sold off the sows, as much as $\$ 1,600$ being
made annually from this source alone. They
brin
 fifly feeding hogs are kept all the time. These
are fed from refuse from the institution and upon are fed from refuse from the institution and upon
shorts, and are made to weigh from 225 to 250 pounds at seven to eight months of age. Here is a point for the everyday farmer. There is a
value bevond that recognized by most people in the kitchen refuse. ordinary swill is goocd pig feed. Utilize every bit of it. From June until
June $\$ 2,071$ has been made from pig feeding alone at this institution, and kitchen waste made up Nine greater part of the feed. sheep. This is likely to be a very profitated to dertaking, and is a good example for farmers generally. There are bundreds of acres in this
country unfit for cultivations which finest of sheep pasture, and the more quickly they are used for this purpose the better.
Gardening is carried on quite extensively, an all thardening is carried on quite extensively, and all the vegetables for the table are produced.
The orchard has been sprayed thoroughly this year and is carrying an excentionally heavy thad of fair quality, fall and early winter fruit. A
few more vears will se This is years will see it in excellent condition. Other Institutions, longer estagrished undertaking. a great success of their farm. It will be interesting to watch the development of this venture
and at the same time copmer the same class. All the Provincial farms of now supervised by E. Todd B. S. ms ar oughly practical graduate of the O. A. C., and
greet great things have been and are being accomplish-
ed on these farms.

## Capacious Barns and Silo.

the Courity of oxford Ont farm improvements only in other in the Dominion. This is true not more strikingly in respect to the seads, but still An exceptionally large barn even for this splendid section is that of S. A. Freeman, who farms
300 acres of land and milks about seventy zows the vear round land and milks about seventy zows accompanying engraving is 96 for 56 ft . $x 404 \mathrm{ft}$ engrath 24 ft . posts and a total roof of 48 feet from basement floor to top of rugated metal. Mr. Freeman covered with cortensive hog feeder, but has done nothing in this

line for five years. The ell-shaped pig-pen is 150
(t. $\times 26 \mathrm{ft}$. and 30 ft . $\times 60 \mathrm{ft}$. is now used for stabling young cattle the part ment of the other part is empty, while its second storey is devoted to implement storage. For the were coning on nicely when seen by a or corn our staff last July, and we are since advised that it promises to be a good average crop despite the untiavorable early season. The spring grain
is also good, while late rains have helped grass, keeping the milk flow up well he about the 800 pounds per day, notwithstanding that about twenty cows are to freshen in October and Novomber. The cows, however, take a good feed of
silage twice a day and it helps to save to grass.

Hapvesting and Threshing in Nova Scotia Editor " The Farmer's Advocat
The farmers of Nova Scotia do not, as a rule stack their grain, possibly for the reason that 1 Our people do not go in for crow ing large quantities to sell; only enough is grown nowgh ior fattening a few beef cattle some cases of late years, a great many farmers do not grow and, incident horses kept, but buy Western oats sow thistle, wild inustard, charlock, etc., thrown in. All the farms have barns large enough to hold their grain in the straw. When threshing
time comes sone who are short of room lod time comes some who are short of room load up
a lot of wagons with straw from the thresher and afterwards store this in the last mow threshed out, which, of course, is empty.
Most farmers feed or bed their straw as it comes from the thresher. On my own farm
when through threshing, we pull out the sepraw when through threshing, we pull out the separa
tor, set up the straw cutter and cut the straw remove that, set up the grain crusher and crush enough to do us through the winter and early spring. We own the straw cutter and grain line engine. The threshing machine requires ane engine. The threshing machine requires who own the outfit. The straw cutter is operated with four or five men, and the crushing can ge done by one man, who has charge of his enthe hopper of the granary, which is close at hand. The blower is not used on the machines operted here. The straw is carried from the maand is then taken by men and tramped into the mows or bays. the spout where the grain comes from the seprator and is there stored in bins, each kind of grain by itself. The grain that is to be used as
sted for the foliowing season is kept in a bin or inns by itself, is run through a fanning mill two
or three times to blow out the light oats and weed seeds. The farmers in Nova Scotia are of late years
paying more attention to selecting good seed from heir onn grain and depending less on Ontario Owing to the season of 1911 being a very dry
one, the grain crop was light. For this reason many farmers were compelled to buy Western oats, a large portion of which did not germinate.
This will mean a heavy loss to our farmers, and they will be compelled to buy their seed again was frozen. It is claimed by some that the see cut green, while others affirm that the grain was threshed very wet, owing to the heavy fall rains and snows in the West, and was kiln dried, which destrover the germ. A lot of seed sent down
here and labelled as coming under the Seed Act, here and labelled as coming under the seed Act
had the appearance of being whitened with sulphur. The only solution of the seed problem in Nova Scotia is for the farmers to grow their own
seerl. They have the climate and the soil for seer. They have the climate and the soil for
doing this with satisfaction, so that the remedy ior all seed troubles lies entirely in their ow hands. A. HECTOR CUTTEN,

Alfalfa as Soil Builder and Feed. The author of an Iowa bulletin estimates that State annually adds to the farm over twice as much nitrogen as an average acre of red clover As a feed, he estimates that an average acre of alfalfa produces 5.5 times as much protein as tim-
othy, 4 times as much as oats, 2.75 times as othy, 4 times as much as oats, 2.75 times as clover. As to yields, sixteen seedings made on the Iowa Station Farm since 1903 have produced an average yield of 4.38 tons per acre, and one
seeding yielded 7 tons in one year, while another has a three year average of $5 \frac{1}{4}$ tons.

## THE DAIRY.

The Latest Holstein Queen duction seated in Holstein-Friesian queen of pro ord so large that it seems she will surely be rec-
to hold quired to abdicate in favor of a successor is restill greater production. A few months ago,
Pontiac Korndyke came to the front, with phenomenal yield of 30.422 pounds butter fat ${ }_{125}$ from 641.4 pounds milk in seven days, and


Golden Horn of Glynn 5816.
Guernsey cow. Owned by Col. Edward St. Aubyn, Glynn, Bodwin, Cornwall.
secreted in thirty days. Now she must stand back much greater test, fully verified, of 33.5 pounds fat from 694.6 pounds milk in seven days and 132.388 pounds fat from 2933.9 pounds milk in thirty days. This is an average of 4.51 per cent.
fat for the whole thirty days average production for that time is 97.79 pound milk containing 4.41 pounds butter fat. Valdessa Scott. 2nd is eight years old, was bred by B. B. Meyer, of New Jersey. She is in by Bernhard related in blood lines to the cows that
$\qquad$ ly whenever it is adopta farm. Build the silo, brother
judgment in the judgment in the construction and size of the
to fit the needs of your herde the long, laborious, undesirable do away with system for summer feeding of your dairy." ${ }^{\text {greoling }}$

## Highest Producing Cows Most Valuable.



Shetland Cow, Griseda.

[^1]latter, say that he would still care for his milk along these improved lines even if he were to go the yield and quality of cheese would be decided-

## Silage Beats Soiling.

"If you are keeping eight or ten cows and have not a silo, do not hesitate longer to build. I hest investment of time and money that can be made," says a Connecticut dairyman with twenty years of experience of the subject he writes about "We have had our herd shrink 25 writes about. their milk flow, he adds, "when
our silage has given
out, before we could and we have no and we have not
been able to pro-
duce results with green sosiling wit
crop to come anywhere when matured and cured silage wā fod, so that we are
positive silage is positive silage is palatable food when rightly made and
fed. "When one considers the amount of food stored up in a 100 to 250 ton
silo, and compare its value with the cost of a like am-
ount of food stored in the average they must concede the most economi-

A new stannard aind in New Jersey, Val-
dessa dessa
claims the hott 2nd. being the first 40 lb. cow the world has ever known
Her official test re port shows that she yielded in seven days 33.50 lbs. o rat, equal to ter, 80 per cent. has never beord that proached by any other
breed
The significance these great rec ords lies in the fact to select and breed from the individuals nd families posessing the tremengestion and assimilation necessary to the production of milk and butter in large quantities at
the lowest possible

As one of our foremost dairy authorities pointe out : The cow giving the most milk and butterfat leaves the owner with the most net cash profit with low-producing cows on small cost of keeping.

This is a phase of dairy economics that is hard to comprehend by a great many farmers. But every experiment and trial that has yet been
made, we believe, proves the assertion to be true.
we made, we believe, proves the assertion to be true.
We have heard hundreds of farmers, however, declare the contrary. And it is passing strange how such a notion got into their heads and more The wise, well posted farmer says: "I must
for many years prominently before the public, and "outsiders" is cited by Malcolm H.. Gardner, Superintendent of Advanced Registry, to prove among the Holstein legions. It is surely a strong argument in

There is a real satisfaction in doing things up to the handle." For instance, in regard to dairyman who chanced over from cheese factory to condensary, installing the cooling facilities and observing the details required from patrons of the
see to it first that I have profit-making cows.
Then I must feed them up to their best capacity with the right kind of feed. In that way only can I make the largest profit."'

Experience with Milking Mach ines
A thoroughly successful milking machine is the greatest boon for which Dairying has been looking to Invention. The difficulty, the impossibility, almost, of keeping enough first-class hel to hand-milk a large herd without the task becoming a great burden, is driving many dairy herds or to invest in mechesical a large inuest mechanical miker where dairying is conducted in used in Australia a wholesale scale. Thousands have also been used in the neighboring Republic, one American firm of manufacturers having sent out over four thousand. A few had also been placed in Can been purchased by Quebec and Western dairymen While Prof. Dean's experience with this make was not wholly satisfactory, other dairymen have las witer fars
Last winter the Farmer's Advocate and othe a machine different from the one most commonly known in Canada. It works on the principle o pressure and suction combined, being therefore an approximate imitation of sucking. Quite Canada within the last few months and so far as we have heard they appear to be giving satisfac ion. The accompanying half-tone was made ber of our editorial staff in the dairy a memHolland, Oxford County. Mr. Holland has herd of 52 cows, and though he has a good-sized amily to help milk, had concluded that he would got to do the milking. He accordingly invested in a four-unit machine at a cost of $\$ 550$, exclus ive of the gasoline engine. He has been exceedingly well pleased.. In a letter written August six were then dry, were producing between thich and eleven hundred pounds of milk a day. He thought they were milking as well as or better than on the same date last year, considering the Only about four of the older cows fail to give their milk down ireely. He anticipates no particular trouble from cows having udder affections, as the syniptoms would be noticed when emptying the chines oi the samel make in his neightother maalso giving good satisfaction.
herd of 31 cows with Elgin County, is milking a ing, with gasoline engine, about machine, costalso seems to be keeping up ut $\$ 600$. His herd aly as compared with previous years, giving be has milked and strix hundred pounds a day. One man ing one and a half hours mechanical ene 1, requir each milking. Mr. Penhale would prefer a machine and costs or four units. Each unit milks one cow gine and fittings. The machine is ns, tanks, enone to cleanse and Mr. Penhale feels satisfied cows are being as well milked this year with the mand. wh they have been any other year by class hand-milker, he considers it is as a firstaverage milker. In connection with the foregoing we append February from R. E. Gunn letter received last Co., Ont. For nearly two years Mr. Gunn had then being using on Dunrobin Stock Farm five Agricultural College, and had found them satio factory in every way. To quote from his letter robin' at any time we will be pleased to sum him the machine working satisfactorily, the cows holding up in their yields and some seventy cows being milked by four men in an hour and a hal o two hours
you can get to-day for $\$ 25.00$ a month to do the milking I would quit dairy farming to-morrow. however, we" have been gradually increasmg ou will be giving milk in th "The milking machine, like all muchaw month trivances, is not possessed gence must be used in its operatio
r's instructions there is little
Some cows will not milk with the
we have found that they are about four per cont
mechanical mill Way, and so milk, out clean with the machine and weys have strippers following the machines and we weigh the milk drawn by the machines weight icharts, so as to know what we are doing." The experience of these and other investors will be closely watched, especially during the tors butumn and early winter. If results continue satisfactory the ensuing sale of milking machines
ill Canada will be large


King of the Ormsbys.
At 14 days old. A full brother of Jennie Bonergies
Ormsby, who holds the senior two-year-old butter rec ord of the world for a year, and has a seven-ltay rec
ord of 33 pounds of butter a thirty-day record as outter ( 80 -per-cent. basis), and pounds. Owned by D. C. Flatt \& \& Son, R. F. D.,
Hamilton, Ont.

GARDEN 炡 ORCHARD.

## Smoking Cigars by Machinery

 bucco in the the average annual production of tobillion the United States reaches nearly one $\$ 100,000,000$, the which the farmer receives about much smaller than it should be. Among the principal causes for small profits from such an tural methods, use of unadapted varieties or strains, damages by insects and diseases, and imperfect knowledge of the principles that apply to the processes of curing, fermenting, and handling the leaf. To remedy these conditions the Amerinvestigate the improvement of 1898 began to tion.Cultural Methods.-The early work of the
partment with tobacco was confined almost tirely to the cigar types, but since 1905 invest gations have been in progress, in the manufactur tricts the average yield has been much less than could be obtained by better cultural methods. In tained in a bigh state of fertility, soins are mainpounds and over to the acre are common 2,000 on similar soils in many of the manufacturing ond export districts the average yield is scarcely proper cultural methods be. One of the imyield is largely due is growing tobacco on of sume land year after year instead of practicing rotation of crops. The work of the Department system this line has been to correct this one-crop system of farming whereby the fertility of the
soil is exhausted. These efforts have succeeder so well that the production in Maryland, Vir ginia, and North Carolina has greatly increased appropriation of $\$ 5,000$ ine has made an annual Breeding and sclection.-In developing acclimsistematic seed selection it Cus fobaccos by old standard types could be greatly improved in the productiveness and other characteristics, and severat desirable types were produced. A large
quantity of tobacco seed is grown directly under the supervision of the Department's tobacco spe cialists located in the various tobacco-producing
centres, and is annually distributed sced of the new and improved types are also distributed to those desiring to grow these types. Scientific and Technical Investigations.-Efforts filler leaf from Cuban seed in the Southern state have demonstrated that this industry can be made a success. A satisfactory substitute for the made growing Sumatra and Cuban has resulted by cial shade, and in 1911 over 2,000 acres artiftobacco (worth $\$ 2,000,000$ ) were acres of such shalk in the Connecticut Valley, The Cuban introduced into northern cigas been successfully resulting in a more uniform and better product, Substantial improvements in the methods product ing are now being introduced, notably in the use eliminating the loss from pole-sweat, which is (istimated to have caused losses in some years amalone. Poor burning in the Connecticut Valley renders them of little value. This subject nas been thoroughly investigated and the principal inwhat unique feature of the labor out. A som was the development of the Department's aut matic cigar smoker, a device for smoting burning under uniform and controlled condit:ons device has eliminated the necessity tests. This smoking of cigars by those conducting the netual except for the final test for aroma. The , sity for such a device can only be appreciatad
those who have been call tewse hundred cigars made from to try smoking a a
fobacco, in the

"
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AUGUST 29, 1912
foundation for developing a type satisfact the exacting consumer. have been devised for cont.-Satisfactory meth, have been devised for controlling most of he it those darnaging the crop during the growin period. Tobacco is also subject to a numbrr destructive maladies, such as the Mosaic disense
which occurs throughout the world, and the root rot, a disease particularly troublesome in he Connecticut Valley. In 1906 the Depart:ann periected a soil-sterilizing device, which has bee valent.

American vs. European Farming
The World's Work for August contains a not worthy article entitled, "Farming the Best of All ado, an unlettered man, who, after knocking ablout at all kinds of jobs till he was nearly
forty, got hold of a couple of thous and dollars, and began farming of in earn est. He has achieved a signal success
not only as a cattle breeder, in which line he worn not only as a cattle breeder, in which line he won
the two-year-old championship at Chicargo in 1904 with a load of rance bred and rance arown Shor horns, but also as a potato grower. His Mt Sopris farm now comprises 2,000 acres. Here in 1886 during his first year, he dug three and In 1900 he made his first trip to Furope travelling slowly throuch France, Germany, Belgium and the British Isles. He was astonished behind European farm practice "Thank ," fifty year "of our wornout soiks and our uncertain crops, and compare them with Lord Rosebery's feat of grow ing 55 long tons ( 2,000 hushels) or more than that has been cultivated for a thousand years And there are no crop failures on his land, either nor crop failures on other English or German growers' lands. Or think of William Dennis \& Sons, who began forty years ago on six acres and
who have grown rich by growing potatoes on 3,

THE FARMER'S ADVOCATE.
is acres of rented land, the valuation of which Two things strike to the root of the European farmers' success:
1 e Care of the
18. Sare of the soil.
2. Selection of seed
they do ${ }^{\text {European }}$ farmers think of nothing so much as of restoring fertility the soil. Only two methods man, and these methods the soib are known to One is to grow on it and plow into it the leguminous plants: clover, alfalfa, rye, vetch. The other is to feed it fertilizers: a combination of
the expensive minerals known to farmers mercials" (nitrate of soda or other nitrogenous salts), and, best of all things, barnyard muck Therefore, you will se william Dennis \& Sons maintaining 600 head of cattle on a 3,000 -acre milk, but to manufacture fertilizer so that they can grow the potatoes that have made them rich They plant grass or vetch in the fields the day nother year of fertilizing may is begin at so that that the soil may be kent free of fungous and other injurious growths, and that it may he kept
open and friable. cattle "On my own Mt. Sopris farm I run 500 head of cattle, rotating my crops on a six years rotation clover. Thus, of 500 , four years in alfalfa and rest of the farm is pasture of tillable soil (the every year 100 acres in intensive potato cultivation. I have never sold a stalk of hay from my every wisp of hay that leaves it to do so ; for rolbing of the soil of that much fertility. The it froptile method is : feed your land muck to make cattle to enough to raise more hay to feed to soil to grow dollars in the form of feed to the buy more cattle for which to grow more hay to make more muck to feed the soil again. Always, as you value your farm, remember the generous
but always hungry soil. pesults
On mask at HOMF
neirhbors Last year, for example, I (and three experiences) had a same methods and exchang farmer in our valley, on exactly the same kind of land and under the same conditions of climate had a greatly lessened yield. I have twenty-six twelve years I have applied these methods. Dur ing these twelve years I have had a steady in crease in average yields. I have increased my yield of potatoes from 100 bushèls to 400 buskel bushels, an acre ; and wheat from 25 bushels to 50 bushels. And I have eliminated crop failure from my experience. When the soil is in perfect yields.
Another indispensable element in soil culture is tile drainage ; so that air and water may be surface freely downward through the soil from the surface of the earth. Strange as it may seem,
drouth is least disastrous where the soil most readily permits water to sink through it. Tiling
at a cost of $\$ 40$ an acre is a profitable permanat a cost of $\$ 40$ an acre is a proftable perman-
ent investment on land that is worth $\$ 100$ ent investment on land that is worth $\$ 100$ an
acre for intensive cultivation-indeed, on any
land. "For 1909, the average yields per acre of the greatest potato yielding countries were: United
Kingdom, 221.1 bushels; Germany 160.3; Russia, 111.5, and the United States, 94.4 bushels. The acreage of the United States in that year was $3,525,000$ acres, and the total yield, $376,537,000$ bushels; and yet $8,383,966$
bushels, valued at $\$ 3,766,034$, were imported from more than nine foreign countries. If the better methods of Europe were eomployed in the better
States. even estimating States, even estimating an average yield equal civilized nations, our increased production would be $24,027,500$ bushels-more than enough to duplicate our exportations of that year and to leave two and one half times the amount imported. conditions. I have made a reasonable American doing it, and have found happiness bey


Growing Celery at Kentville, Nova Scotia
On the farm of A. V. Pineo. Mr. Pineo has grown a lew thousand heads during the past couple of years, and hopes to develop the business to commercial proportions.


As They Do it in Scotland. seen. To encourage the spread of this better "This season I have been working out an
farming is my ambition. And if others have my economic experiment in buying for some of the
experience, they will find in the tilling of the soil big consumers in the city, with the result that experience, they will find in the tilling of the soil big consumers in the city, with the result that
a life of abounding healthfulness and unfailing in- 1 have brought down on myself the usual mono-
terest a field a rie of abounding healthfulness and unfailing in- 1 have brought down on myself the usual mono-
terest, a field for energy and intelligence, full of polistic efforts to stifle competition, but the ex-
satisfaction, of dignity, of independence, satisfaction, of dignity, of independence, and peace

The Apple Ppoblem.
This would be fine weather for studying the
oung ducks-if if were not so wet. For several young ducks-if if were not so wet. $\begin{aligned} & \text { For several } \\ & \text { weeks we have been living between showers }\end{aligned}$ weeks we have been living between showers, and
the ducks are the only things on the farm that are thriving. They are in their element. The hens and turkeys look bedraggled and discourag
ed, but the ducks are growing like weeds, and ed, but the ducks are growing like weeds, and
they are busy all the time. They find puddles everywhere and the creeks are full of water and life is just one round of pleasure. I have prom
ised myself the pieasure of making a careful 'ina ised myself the pleasure of making a careful "nature study" of the ducks, but I shall have to put
it off until I can do it dry shod. 'If I tried to follew them in their rounds, to observe their habits and listen to their inspiring conversation, I
would need to wear a diver's suit. But I am dewould need to wear a diver's suit. But I am de-
termined to do it, because the ducks are about the only things on the farm that I have not studied at one time or another. Besides, I find that ducks have been neglected by the poets and
historians and writers generally. Milton has historians and writers generally. Milton has
celebrated the hen-tame villatic
fowl. goose saved Rome on one occasion, and have not
the turkeys held the place the turkeys held the place of honor at many a
lordly feast? They have their place in Christmas and Thanksgiving poem and story. But the humble and succulent duck has waddled through life "unwept, unhonored and unsung." places where they are mentioned in singers of college songs are aware that Clementine drove her ducklings to the water every morning just at nine, and those of us who learn There was a little man
Who had a little gun
And his bullets were made of lead, lead, lead And he went to the brake
And he shot a little drake
And he shot a little drake
And he shot it through the head, head, head But in spite of this neglect the duck must have that I have heard "ducky", for it seems to me dearment. Undoubtedly the ducks are a promisI shall take a pencil and pad and get after them.

Almost every day I am hearing of apples being sold for a dollar a barrel, and I am wonder-
ing about it. The latest reports from Ottawa ing about it. The latest reports from Ottawa say that the prospect.s are that there will be a
strong demand for Canadian apples in the British market, and the indications are that if anything the price to the consumers will be hicher than last year. A correspondent who is trying and has
written :
polistic elforts to stifle competition, but the ex-
periment is a commercial success and it is likely to have important results in breaking up the monopoly. I hope to have an opportunity of going into this more fully with you later. selling at a dollar a barrel with trimmings. They must be less sophisticated than ours. We outgrew the boarding swindle years ago and often bargain for the buyers to pick as well as pack
the apples. I gather from the crop reports that the outlook is not at all unfavorable for a good demand, and there is no need of accepting such a low, figure-certainly not half of last year's This is all very well, but how are we to get
the proper prices? One farmer who had the proper prices? One farmer who had sold his orchard for a dollar a barrel told me of his last
attempt to act independently. attempt to act independently. With a few neigh
bors he shipped a carload of choice fruit to the British market and when the returns came he did not get enough to pay for his barrels. I Io not wonder that he sold for what he could get. In
his opinion the orchardists who are Inot able to hos opinion the orchardists who are Inot able to
form an association for handling their apples are in a worse position than ever before. They
are absolutely at the mercy of the buyers and are absolutely at the mercy of the buyers and

Here is a bit of conversation that occurred in
the village a few days ago. It shows the atti-
tude of the average farmer towards his orchard
better than anything I have yet heard. A man
asked another if he had many apples this year. asked another if he had many apples this year.
"Yes," was the surprising reply, "and I haven't got any pigs." He wasn't joking either.
As he has no pigs the apples on the trees will As he has no pigs the apples on the trees will
probably rot on the ground. In his orchard probably rot on the ground. In his orchard
hhere are thirty thrifty spies and a lot of other standard trees, but it did not seem, worth while for him to spray them, and as he lives about eight miles from an evaporator factory, he could
not make wages by hauling them to town. not make wages by hauling them to town.
From what I read in the bulletins, I su that apples would be about the most profitable crop that a man could possibly raise, but we
shall have to have some demonstrations in sellshal have to have some demonstrations in sellThere is another matter in connection with
this problem of marketing farm produce and the this problem of marketing farm produce and the
high cost of living that is causing me some surhigh cost of living that is causing me some sur-
prise. I was wondering why the consumers prise. I was wondering why the consumers do not
take some action in the matter. They certainly pay high prices for what they buy, and I c'awnot help thinking that they should take some action
towards buy direct from farmers. If they did towards buxing direct from farmers. If they did
this they could probably afford to pay us better prices than the regular buyers, and at the same time get their products more cheaply. It is easier
for city people to get together and I cannot see why they should not do it, instead of expecting the producers to do all the work of marketing
and carrying their products to city doors. Last summer a visitor from the West told me how the gether, and ordered fruit in quantity from British Columbia, and got good fruit for less than half they would have to pay to loca- dealers who
handled them through the commission trade. But in this part of the world the consumers seem to content themselves with grumbling about the high
cost of living. If they would make an effort to cost of living. If they would make an effort to
meet the producers half way it would be better for

It seems to me to be about time for the far
mers of the country to reverse a joke that I remember had just dined lavishly at. A witty epiant and on the street was accosted by a beggar "I must
"I do not see the necessity," said the well-fed witty one, as he passed on his way. At the pre-
sent time the business-man world is so organized complaining fars people seem to be saying to the Is must met rich
Is it not about time that the producing far-
"I do not see the necessity," and proceed to arrange matters so that he cannot be held up at
every turn. Speaking of ducks a letter has just come to s a great day for correspondent writes: "This naking the most of it. We have quite a numwhite of aucks-Indian Runners-great layers of ng to a neighbor are laying yet. I stood talkhurried past in single file to get into the wheat erge, actually on the at them one dropped an cege, actually on the run. Maybe that is why I think I shall have to try to get a setting of those ducks next spring. My correspondent writes
further:
"The other day I noticed a teamster workine his horses near here. One of them had a boh-tail. fies were very had, hit the humane man impro-bob-tail. The way in which and attached it to the


Floating Bridge Across Lake Chemong, Peterboro Co., Ont
proof of its efficiency. I made up my mind right turn away to the dry-mash hopper, if still hun
there to write and tell you about it.", There are a number of obther itteresting and
important things in my correspondent's letter and I shall dieal with them later. I am glad that I am not the only one who 18 observing the amus-
ing things that happen on the farm. ingey may seem but trifles, they help to cheer us
they mithough
with our work

Norfolk Apple Crop Disposed Of. Jas. E. Johnson, manager and secretary of the
Norfolk Fruit Growers' Association, has disposed of the entire crop of the Association to J. J. . Anderson, of Lucknow. This deal means the
transfer of from 40,000 to 50,000 barrels of apples from the well-cared for orchards of the as-
sociation and the sale of the sociation and the sale of the Norfolk crop is al-
ways one of the big events of the apple sale seaMr. Johnson informs the Farmer's Advocate that the sale was made along strictly co-opera-
tive lines. The crop, he says, is somewhat uneven, some orchards yielding very well. He also
believes that the Fruit Growers' Association and berovess generally in Ontario should not makn the
growe error of trying to get too large a price for their
apples, which would result in a loss to the retail merchants in the Northwest. Generally speaking,
the merchants last year lost apples, and this year it would be policy for the fruit growers of ontario to dispose of their ap-
ples to the dealers at such a price that they can make a good legitimate profit and at the same time give them the best quality that was , ever
packed in the Province. Mr. Johnson says, the West and they will a heave box pack crop in to place on our Canadian markets and if our apples do not compare favorably with theirs
get the worst of it in the next few years.

## A Centupy Old Apple Tree.

 According to the Weekly Market GrowersJournal, North Carolina can boast of having the largest apple tree in the United States. This cunference at the ground and twelve feet six inches just below the first limb, which is eight feet laove the ground. Records say this tree was a
large tree ninety years ago and is still bearing The variety is known to the people in the sec
tion in which the tree stands ple," from its rich, yellow-red striped color Ap feeplavor. The fruit matures in September and keeps until late fall and is of medium size. The
article concludes. "Ner clared to be the largest apple tree this big tree de if cut the stump would appe room in the world to stand on it at one time, and if it was hollow
and lying down an ordinary cow could walk and lying down an ordinary cow could walk
through its length and not touch her back or sides."
If
If
apple tree can weather all the adverse conditions over upwards of a century and still
beer fruit, with the scientific methods now being $\xlongequal{\text { practically no limit to the life of apple trees. }}$

## POULTRY

## Dry Feeding with Hoppers.

 in recent years, prol important forward steps made the adoption of the alldry-iond is the ton method of feeding both chicks and fowls
('ypherse coatest, says a bulletin issued by the saving in dounnri Service. It not only effects a cellent profits in health of fock and egg yield. mee marked distinction between the dry-feeding
method and that of feeding the mash wet or cooked is that the dry mash is kept before the birds
in hoppers all the time, whereas the wet mash constitutes one or another of the three usual daly feeds. Those who fear that under the dry
mash system the fowls will overeat and become lazy do not realize what the dry-feeding method
reaily is. By it only the mash portion of the food should be kept constantly before the birds. They
still have pienty Unhile have plienty of opportunity to derive exercise
lilter for How DRy Ferdiva is nove
In superintending dry feeding the essential pors as he passes shallog give a glance at the hop hop
auny are the pens, and if aly are seen to be getting low, refill them. of
this dry mash the birds eat what they want at
any tin met thy time, as the appetite prompts them. It is scratching food to the mash and will scratch and
work for that so tong as there seems to be reaWork for that so long as there seems to be rea-
sonable expectation of finding a kernel, then when
gry, and eat a few mouthtuls op of mash.
At no time do the bird mouthfuls, because, being dry and somean a few cult to swallow, they eat no more of it thay they absolutely crave and the "mouthing" the give it enables them to salivate and swallow They cannot gobble down a lot of it, as they do
when a moist mash is fed, and it was the old time moist mash that enabled the hogrish one in a flock to load up with a great quantity o mash, and then go upo the roost to idity in the
time away till the mash was disested time away till the mash was digested. Those
were the birds that came down with the liver disease or other digestive troubles ,and that accumu lated fat till they were "baggy" behind an orthless as layers.


Fig. 1.-Out-door Dry-food Hopper in Use Hopper is made so that the wind cannot blow then space and waste the food. Fully protects tod forin rainy weather. Will accommodate 12 to 15 fowl


Fig. 2.- Out-door Dry-food Hopper with over off for Filling


## THE FARM BULLETIN

No Institute Tent at Toponto. on the Canadian National Exhibition grounds for the Ontario Department of Agriculture this year The heads of the various branches are interested
in exhibits 1 located at different points and thess they will make their head-quarters. The Insti-
tutes and Dairy Branch will have head in the West wing of the Dairy Building warter the other branches and the Ontario Agricultura College will be found in the new Government's
Building. work at the Agricultural College the Fruit Branch and Field Crop competitions of the Agricultural societies, as well as Speciab Exhibite irom a number of the sections in Northern On-
tario will be found in the Government's Building while the Dairy exhibits will be found in the
Dairy Building.

The supreme joke of the American legislative hodies' flagrant disregard for treaty pledges,
in regard to discrimination in toll rates Panama Canal, is President Taft's plan for testing the legality of the provision, through suits
entered by foreign nations in the United States Courts. An international Court, like the Hauge,

Wet Weather Reflections from New Brunswick.
Editor "The Farmer's Advocate",
Readers of the Farmer's Advocate in the Mar in Peter McArthur's interested in the statement 18th issue saying that he had about compled haying, and, at that, ten days before date so sue. Here it is now nearly the middle of the nonth and a great many have not started yet ust waiting, like Noah of old, until the waters have abated. On the night of the 20th of July, commenced to rain, and with only two exceptions, rain has fallen every day since August 13th. With the optimism for which farmers are noten, we looked forward to a change of moon things that are waited for, but alas with the "new moon" came the worst storm in the the ory of man, the heavens seemed to be rent mempder with lightning and thunder and the rain poured in torrents. The land, saturated, enough The marshes for which this country and Cumberland, Nova Scotia, are famous, are one vast lake and it will take weeks of dry weather before maabout as bad a plight, and sufferers. For three weeks no cultive greatest done on account of the wet, and weeds, which seem to thrive on wet soil as on dry, are in evi-
dence everywhere. Turnips that were dence every where. Turnips that were not thin ing the ground, and if the weather clears will likely be further neglected, as all our energies will be directed to getting the hay saved. This neeans a small crop of roots, which is to be re-
gretted, because at least the over-ripe hay will be poor fodder, but would, with full cellars succulent roots, carry the stock through the wingly, is well illustrated this year never comes sinfarmers in this locatity, listening of late years tunities of Institute speakers, mostly men. from the drier climates of Ontario, and reading in the columins of the agricultural press the advantages with that useful plant. Those who down largely handling clover hay, may imagine what it is like now, at this late date and the results so disappointing, that the old custom of seeding only In both the counties referred to, hay is the principal crop, the money crop of the farmer, and all others are only side issues. The Dorchester, Sackville and 'Tantrimar marches, which yield arge crons every year without the aid of manure
or fertilizer of any kind, provide an easy way to keep the pot boiling, and selling hay is so much easier work than feeding stock and caring for it, that the natural result is that the upland is yearscarcity of live stock, that it is doubtful if, after than a blessing. "One thing is certainly indury able. Those farmers who own no marsh notice sive of our farmers. They havin most progresfertilize their farms, live stock to manure and and the paying results are shown in necessity, ortable buildings and tidy, well-kept comthe fathers of the present generation were all for hay, shipping facilities were not much demand at present, and nearly all the hay at good as to stock. The city butchers could get a carload beef is imported to fill the local station. Now farnier sells his hay instead, and demand. The and nearly everything else needed for his beef in those bye-gone days, taking care of the cattle or father and boys. Now the boyd employment ity or go West, and the father sells the hay, and ever, a better day is dawning. Already Howa rift in the clouds. The high price of horses has set men thinking, and thinking is leading to results. The best mares are busy at work raisdale stallions being well patronized. Buyers are coming in, horses are changing hands at good proper and while beof raising is not getting its are increasing, and the foundation, dairy herds pure-bred Ayrshire herds is under way weveral stimulus given by both Federal and Provincial see our youn to the sheep industry, we hope to of live stock breeding. Already a fost profitable flock headers, and we sincerelyaking enquiries for not far distant when the raw material will be manufactured on the farm. A. McP.

## 1512

THE FARMER'S ADVOCATE
FOUNDED 1866

Conditions of the Fruit Crop. the Fruit Division of the Department of Agriculcure, Ottawa, says that the wet weather has caused a luxuriant growth and the weather has
been very favorable to the induced fungus diseases to cortas but has Apple scab is reported from practically all the apple sections and it is safe to say there will be a much larger proportion of No. 3 fruit this year than usual. Hail has done serious injury to fruit in the Nelson and Kootenay district of British umbia.
No marked change has taken place in the pros pects for the apple crop. The weather upon the damp weather has induced fungus. Nar as the correspondents report the rrowth Nearly all larger indeed than usual. There does notcellent to be any exceptional complaint with reference to insects. The general average for the Dominio starts at 69 per cent. for early apples, 65 cent. for fall apples, and 61 per cent. for winter
apples apples, or an average for the Dominion of 65 per
cent. Pears are good in the inland valleys of British
Columbia, but rather Plums are light in the West, below avarage. Eastern Canada, with the exception of Nov
Scoti Peach trees which withstood the winter British Colunbia are well Ioaded. Ontario has
medium crop, whioh is likely to by the canners. Whioh is likely to be largely taken Grapes will be a good crop, of large fruit, and
tomatoes give prospect of a tomato $\begin{aligned} & \text { the vive prospect of a very large crop al- } \\ & \text { supuly the acreage is small and not sufficient to }\end{aligned}$ supply the dermand
The fruit prospects for age, while conditions in United States are fair, the crop being evenly distributed, and slightly
above the average in those states competing with Canadian apples.
Buying is reported as not quite so keen as in
former years, but market conditionso are fairly reassuring, a bumper crop is sure in the American Pacific States.

## Ontapio Cpop Bulletin.

The Ontario Department of Agriculture has issued a statement of crop conditions under date patchy Aust 12th. Fall wheat is reported as vesting, making it two weekenly, delaying harShowery weather two weeks later than usual in some districts, but the bulk of the grain is of fair quality, while the straw was of medium length, with more rust than usual. Yields range
from 10 to 35 bushels per acre, the porest be ing along Lake Erie.
${ }^{\text {ing along Lake Frie }}$
straw, well-filled straw, well-filled and a good average crop. Wild
Goose veriety most in Barley will show a fair yield of plump grain in
nearly every county. harvest comparatively late, with wet weather hindering in many districts.
straw clean. owing to late ripening will not finish until, but end of the month.
Rye is not extensively grown, but yield and quality will be good. Peas are reported much better this year than
during the last few years bield to 30 bushels per acrears. Northern vary fontam 5
very faverable sends
very favorable reports.
Beans promise an average crop, although late Heans promise an average crop, although late
Hay gave a fair crop the Province over. with
imothy a little better than clover seedings, alfalfa inclued od prom cise werl. All new
The corn will likely be the poorest in veare. Fields are generally thin and unpromising, owing to wet, cold weather. In some of the Western
counties the white grub has done much iniury to this crop.
weather, wire worms and grubs
a heatatoes are reported as showing prospects of Beetles were not as troublesome this year, and a Conditions are now more favorable for the root criop. Mane now more favarable sugar beets are the doing
better than turnips and are likely to be a good There will be a fair yield of fall apples, but the
better class of winter varieties will be rather scarce .t.u Jose scale arde caterpillars are sther
cormplainull of , out very little mention is munde or


Correspondent suggestively saying of the latter, crop, and the yield of cherries upon the whole has been a gond one. Grapes, as usual, give
promise of a large yield,
although considered a intle late in growth this season.
Pastures and Live Sitok
revived and viting. Live stock are in a good healthy condi toon. Cattle are at present in brisk demand at good prices. Fodder supplies will not be abund-
ant, but careful feeders will ant, but careful feeders will have a sufficiency in ling to be regarded as the key to the feeding situation. Straw is more plentiful than last
year. Farm Labor--Farm labor is reported to be as scarce or scarcer than ever, and the quality of ers are trying to meet the shortage of harmasing larger implements and other improved ma clinery, interchanging labor with neighbors, and doing more grazing. Wages range from $\$ 1.25$
o. $\$ 1.50$ per day, and from $\$ 20$ to $\$ 40$ per month

## Choice Live Stock at Edmonton

 The live stock display at Edmonton's 1912 ex seen in Western Canade choicest that has been stronger than has been seen at Western exhibi tions, with the exception of Calgary, while beef up of all previous yers and quality the line showed an increase in numbers and the swin classes are stronger each year. Another featur was an extensive horticultural display, consisting of fruit from British Columbia and vegetables of The horse exhibit was made up of Clydes dales, Percherons, Belgians and Suffolk Punche besides the lighter breeds. John Bright, Myrt awards.Clydesdales.-The aged stallion and aged filly classes were especially strong, but the classes for
younger stock were were twelve aged were not so well filled. There aged fillies. A wards-Aged stallions, 1 elev Sutherland, on Revelanta's Heir ; 2, P. A. Swit.
zer, on Royal Diadem ; 3, P. M. Bredt \& Sons, zer, on Royal Diadem; 3, P. M. Bredt \& Sons,
on Royal Robin $; 4$, Davis $\&$ Morton, on Ben
Tint on Royal Robin; 4 , Davis \& Morton, on Ben
Turret ; ${ }^{5}$, Western Canada Land Co., on Cul-
inan inan. 3 -year-olds, 1 , Vanstone \& Rogers, on
Red Cap. ${ }^{\text {Two-year-olds, 1, C. McLaughlin. }}$. Excelsior ; 2, Charles Eilet, on Quality's Mar
quis.
Brood mares, Aged mares, 1, R. J. Bray, on Pirene; 2 and 3 P. M. Bredt \& Sons, on Dunrobin Pearline and Nannie Grenwell ; 4, Sutherland, on Bonnie inour. Two-year-olds, sutherland Jeanie ArBelle ; 2, P.-year-olds, 1 , Sutherland, on Craigie
Bredt \& Sons, on Queen Alexan Uria. Champion stallion, Revelanta's Heir
Champion filly, Craie Belle. Canadian-bred champion filly, ${ }^{\text {Craigie }} \begin{aligned} & \text { Belle. } \\ & \text { Brest }\end{aligned}$ Canadian-bred
Best draft team, P. M. M. Percherons.-In number of entries auality f exhibits this breed showed better than on pre A. Aged stallions, 1 , Geo. Lane, Eritant; 3, R. J. Manson, on Irame 4r, on Worsie. ${ }^{\text {on }}$ Gourgault ; 5, W. C. Henderson, on mares, showing four good individuals. Lane also fine six-horse team of registered stock. Lane took hoth championships.
Belyians were shown by W. C. Henderson and Helcians, were shown by W. C. Henderson and
Hont. Heazina, and St. Cyr Villetard, Beau-
Henderson dot first. hont. Henderson got first and second in aged
stallions. Hanzen first in three-year-olds and two Haar-olds Won villetard first in three year-old fillies.
and Henterson's. stallion, Paul de Montignies
Was made champion. 1 good exhibit of Suffolk Punches wha mate
19. Baker \& IIunt, of Fort Saskatchewan. Beef cattle were
 Shorthorns-Competition in this breed we tions this year. J. H. Melick, Edmonton, Ph M. ois, tull it it. A. Kidenwold, G. J. Sayer, of inlineviniturs. Sayer'\& Uxor Prince headed the chief
bull class, and Melick's Pride of altion thed ior verringe These two brills fought it out for
championstip.




Start 2nd was senior and grand champion, Helick's Clover Leaf Dorothy junior and reser and made up for the beef breeds what was strong the Shorthorn classes. L. O. Cliffiord, Oshawa H. Cresson Downie \& Sons, Carstairs, Alta man, Haytield, Man., were the and J. A. ChapClifford took the large end of the money buitors. nost classes had to fight for it. He got senior and grand championship on his aged bull Refiner male on Miss Brae 26th and Miss Brae 34th feO. Aberdeen-Angus.-J. D. McGregor of Brand Guelph, Battles, of Iowa, and Jas. Bowman distributed much ont., fought out again with honors McGregor's mach as upon previous occasions. Brook was senior and grand champion, and Bow serve Elm Park Beauty Prince junior and re gash was gash was senior and grand champion and Bat
tle's Myra of Rosemere junior champion Of the dairy breeds Ayrshires were emale greatest numbers. In this breed competition was
keen between the herd of $P$. Georgetown, Que., and several Western herds. J. championship on Netherall Douglas Swell, Mc Arthur's Whitehall Freetrader was reserve. Mc Arthur's aged cow Amaryllis of the Willows was Homeward Cinderell In Jerseys, B. H. Bull \& Son's Ont., cleaned up most of the money in strong
competition. In the swine pens competition was keen
throughout, and pespecially Yorkshout, and especially in Berkshires and
Yorksires, while most of the sheep classes wer losely contested, and on the whole the entire ive stock exhibit at Edmonton outclassed that

## Death of Professor John Craig

 Siasconsett, of Prof. John Craig, the New York distinguished head Agriculture, Ithica, loses the ment Scottish origin, he was born at Lakefield, Quebec, in 1864, receiving his education atthe Montreal High School. Towa culture, and Cornell University Chege of Agrisome time in orcharding in Quebec, he became horticulturist at the Central Experimental Farm culturist at the 1897. He next became hortiyears, taking up extension teaching at for two University in 1902, and since 1903 has been hor man of the section institution. He was chair the American Association ond botany i Teges and Experimental Stations and shared in provement and was American League of Civic Im-

## Death of Professor Scovell

vell, Director of the Kentucky Experiment Sta-
tion, and Dean lugust 15th away at his home at Lexineture, flammation, atter an illness of two weeks of most diligent worker fort. Dr. Scovell had been culture, particularly in its dairy development anced advocate. He was a sincere champion bal the Jersey breed of cattle, and the dairy herd essey blood. His services as exclusively of Jer quently sought by prominent fair associations in
the States, and in this capacity at vear he officiated acceptably
bition Canadian National Exhigentle disposition and was a man of kind and
respect and in the highest respect and esteem by was held in the highest
of his acquaintance. ranging plans Department of Agriculture is arhive stock (cattle, sheep and swine of pure-bred tions of the formation of small local associaanimals under certain conditions. The ithea is to
develop in given districter with the and other stock best suited or type of catditions and needs. Some Shorthorn the local conMonty been placed on the demonstration farm alGured from the mild Countrain sire is to be secured from the Old Countran. Sire is to be se-
This autumn a
theorp of hous will be placed on the farm and
ther datoCo Duminion hairy Station to be orated


MARKETS.

## Toronto

Review of last week's markets At West Toronto, on Monday, August cars, comprising 1,499 cattle, 377 hogs, 64 sheep, 98 calves, and 31 horses; trade slow; prices easier. Exporters,
$\$ 6.75$ to $\$ 6.90 ;$ bulls, $\$ 5.25$ to $\$ 5.50$;
butchers', heavy, choice, $\$ 6.50$ to $\$ 6.75$,

 3; bulls, $\$ 2.75$ to $\$ 3.75$; milkers, $\$ 40$ $\$ 85$; calves, $\$ 4$ to $\$ 8.50$; feeders, $\$ 5$
$\$ 5.60$; stockers, $\$ 4$ to $\$ 4.50$. Sheep
 The total receipts of live stock at City and Union Stock-yards last wee

| Cars | City. | Union. | Total. 303 |
| :---: | :---: | :---: | :---: |
| Cattle ...... .... | 792 | 3,244 |  |
| Hogs | 1,651 | 3,475 | 5,126 |
| Sheep ...... ..... | 1,758 | 1,523 | 3,279 |
| Calves | 376 | 485 | 861 |
| Horses | 34 | 109 | 143 |


 $\$ 5.40$. Ontario patents, $\$ 5.25$; straight
rollers, $\$ 4.85$ to $\$ 4.90$. Flour in bags 30c. per barrel less.
Millfeed.-Prices held frm, Bran, $\$ 22$ Millfeed.-Prices held firm. Bran, $\$ 22$
per ton in bays; shorts, middlings, $\$ 27$ to $\$ 28$ per ton; pure
grain mouille, $\$ 32$ to $\$ 34$, and mixed, grain mouille, $\$ 32$ to $\$ 34$, and mixed
$\$ 30$ to
$\$ 31$ Hay.-The market for hay is being affected by the new crop, and prices hav
declined somewhat. No. 1 hay, $\$ 17$ to $\$ 18$ per ton, pressed, carloads, track,
Montreal; No, ${ }^{2}$ extra, $\$ 16$ to $\$ 16.50$ Montreal; No. 2 extra, $\$ 16$ to $\$ 16.50$,
No. 2 good, $\$ 15$ to $\$ 15.50$. No. 3 hay,
$\$ 12$ to $\$ 12.50$, and clover mixed, $\$ 10$ to $\$ 11$ per ton.
Hides.-Lamb skins have advanced $t$ 40c. each, the wool being longer. The
rest of the market steady, and demand good, at 11 c ., 12 c . and 18 c . per 1 bb . for
hides, and 17 c . and 19 c . per 1 b . for calf skins; horse hides, $\$ 1.75$ to $\$ 2.50$. Tal

Buffalo.
Cattle.-Prime
steers, $\$ 9.25$ to $\$ 9.50$;
shipping, $\$ 8.50$ to $\$ 9 ;$ butchers', $\$ 5.50$ shipping, $\$ 8.50$ to $\$ 9 ;$ butchers, $\$ 5.50$
to $\$ 8.65$ heifers, $\$ 4.50$ to $\$ 8$ cowe,
$\$ 2.75$ to $\$ 6.50 ;$ bulls, $\$ 4$ to $\$ 6$; stockere and feeders, $\$ 4.25$ to $\$ 5.65$; stock heifl-
ers, $\$ 3.75$ to $\$ 4.25 ;$ fresh cows and springers, $\$ 30$ to $\$ 70$
Veals. $\$ 4$ to $\$ 12$. Hogs.-Heavy, $\$ 9$ to $\$ 9.10$; mixed, pigs, $\$ 8.65$ to $\$ 8.75 ;$ roughs, $\$ 7.75$ to
$\$ 7.90 ;$ stags, $\$ 5$ to $\$ 7$ dairies, $\$ 8.75$ Sheep and Lambs.-Lambs, $\$ 4.50$ to
$\$ 7.50 ;$ a few at $\$ 7.65 ;$ yearling 85 to
5.50 wethers, $\$ 4.75$ to $\$ 5$; owee, $\$ 2$ to $\$ 7.50$; a fow at $\$ 7.65 ;$ yearlings, $\$ 5$ to
$\$ 5.50 ;$ wethers, $\$ 4.75$ to $\$ 5 ;$ owes, $\$ 2$ to
$\$ 4.25 ;$ sheep, mixed, $\$ 3$ to $\$ 4.75$.

## Cheese Markets.

Woodstock, Ont., 18łc.; Madoc, Ont.,
3quc.; Brockville, Ont., $18 \ddagger \mathrm{c} . ;$
Kingston nt., 18 ick.; Vankleek Hill, Ont., 18je,
 o 18 7-16c.; Iroquois, Ont., 18tc.; Cort
all, Ont., 18tc.; Ottawa, Ont. 18ta

 $\begin{array}{ll}18 & 11-18 \mathrm{c} \text {.; } \\ 18 & 7-16 \mathrm{c} \text {; }\end{array}$

## Chicago.

Cattle--Beeves, 85.75 to $\$ 10.50$; Texam \$8.85; stockers and feeders, $\$ 4.40$ to 735; cows and heifer's, $\$ 2.65$ to $\$ 8.10$
 rough, $\$ 7.85$ to $\$ 8.05 ;$ pigs, $\$ 5.50$ to
$\$ 8.15$. sheep.-Native, $\$ 3.25$ to $\$ 4.85$; West $\$ 5.40$. Lambs, native, $\$ 4.50$ to $\$ 7.10$
Western,
$\$ 4.50$

British Cattle Market.
John Rugers \& Co., Liverpool, cable teers, from $13 \ddagger \mathrm{c}$. to $13 \AA \mathrm{c}$. per pound.
'Twas in the good old days when the cat-o'-nine tails, whs used freely
Scene : Quarter-deck of H. M. ${ }^{\text {S. }}$. Hardship. Pat Murphy and Jock McLean had
been breaking leave and lid heen been breaking leave and had been ordered
to receive ten strokes each of the "cot to receive ten strokes each of the "cat."
When the time came for their punishment the captain, considering their previous good character, said that if they wished a wear anything to protect their back
a little they could do so. The Scotchman replied that he would like to have piece of canvas on his back. The reuest was granted, and then Pat, on be
ing asked what he would like, sald, ing asked what he would like, sald,
" Shure, sir, if it is all the same to you,
I would like to have the Scotchman on I would
my back."
-
elop
ement)-Well, here
Bride (back ancren
wo are, pa you give us your Her Dad-Yes, , daughter; no trouble
about the blessin, but board and lodg-
in' will be ont

Little Trips Among the Eminent.

Sir Thomas Lawrence.
(1769-1830).
In the series of sketches which have already ap peared in these pages, touching upon the lives of Bitish artists, enough has been said to show that won a as in most other things, Great Britain has of the earth.
There still remain the names of five among those of the more eminent artists to complete the list,-Lawrence, Constable, Wilkie, Landseer, and Watts. Of these that of Sir Thomas Lawrence is undoubtedly the most illustrious, although not. perhaps, the best known, that of Landseer holding preeminence in this respect.

Sir Thomsa Lawtence-plain Thomas Lawrence to begin with-was born in Bristol on May 4th
1769 , the son of an innkeer $\mathbf{o}_{\text {f a }}$ a family of of an inteen. The father had be
his career had been educated for the law. but his career had been rather chequered. He had be-
come, successively, "attomey of odes, actor, revenue officer, farmer, and pubiter and had prospered in none of these callings," It is not surprising to find that as old age drew with a sixteenth child added to his family, his out look became rather unusually uncertain. Oddly enough, it was this sixteenth child who was to be come, before long, the chief support of the family

Before half a dozen years had passed, the little lad evinced an astonishing precocity. When he was but five years of age his father used to put him on the table of the inn and require him to draw the Dortraits of his customers and recite for them pass-
ages from Milton and Shakespeare. - Just here, are we of the present day falling upon degenerate day intellectually? Who now would listen long to
passages from Milton and Shakespeare, even though recited from an inn table by a wonderful, golden haired lad of but five years of age, as did those
customers of the Black Bear Inn at Devizes less than one hundred years ago ?
The story
The story is told that upon one occasion Lord
and Lady Kenyon arrived at the inn landlord at once began to tell them how his son
lited
oould recite and draw, when in came the child riding could recite and draw, when in came the child riding
on a stick. Attracted at once by his beauty they on a stick. Attracted at once by his beauty, they
became very much interested, and presently Lady became very much interested, and presently Lady
Kenyon asked if he could draw their portraits. "That I can," he said, "and very heike tooo." He
was put on a high-chair, and within an hour had was put on a high-chair, and within an hour had
drawn remarkable likenesses of both. That of the drawn remarkable likenesses of both. That of the
lady, done in pencil and delicately shaded, was
recognized twenty-five years after When the boy was but ten years of age his father
failed in business, left Devizes and ford, where he inducetl his son to set up as a por-
trait painter. It became the fashion to be paintld trait painter. It became the fashion to be painted by
the handsome little prodigy, and so, at this aarly age. the handsome little prodigy, and so, at this early age.
he became the chief support of the household. again orders for portraits came in plenty, the studio of the child of twelve becoming, indeed, "the re-
sort of the beauty and fashion and taste of the city.'

At seventeen he had progressed so far that he was able to write to his mother-and that without conceit, tor he was never conceited.- "Excepting
Sir Joshua, for the painting of a head I would risk my reputation with any painter in London.
This consciousness This consciousness made him long more and
more to try his skill in the great metropolis, hence fi 1787 he went up to London, took a house hnd by his father's advice, gave an exhibit. His ex treme youth, however, was now past; he was no
longer a "prodigy," and his exhibit did longer a "prodigy," and his exhibit did not set
the city on fire. There was nothing to be done, therefore, but to study and work upward as the other artists were doing.
for severeal yars he did not try to sell more than paid expenses-often a large enough contract, be speculating with certain loss, leaving the son to make up the differences. After a time, however, the years of unflagging
perseverance met with their perseverance met with their reward. Commis-
sions began to come in, and almost with a bound Lawrence became a favorite painter of the nobilto the chagrin of of Sir Joshua Reynolds, much who,nevertheless,could not dislike hime so generons, and sweet of disposition was he, he was made prinipal portrait-painter to the royal family. Before he was twenty-four, by influence of King George emy, and henceforth his fortune and his fame were both assured. Two years later, so excellent had
been his work, he was electe a been his work, he was elected a full memb
unanimous choice of the Academy itself

Lawrence was now not only a very successful portrait-painter but a very popular young man,
to whom the doors of the mosr illustrion 10 whom the doors of the mosr illustrious houses
in London were opened, as much because of his in London were opened, as much because of his
graces of person and courtly manners as because
sation was held in that soft, low whisper, and with nat tone of defference and interest which are so persuaded that he never to please. I am myself He was not a male coouuet; he had no plan of con He was
quest.'

In 1815 he was knighted by the king. Three years later, during the negotiations that closed
the War of the Austrain Succession, he was sent to Aix-la-Chapelle, to paint the sovereigns and diplonats gathered there. From there he went to Vienna and Rome, paint-
ing portraits of the nobility of Austria and Italy, and of the Pope and his Cardinals. Indeed during his career nearly all the sovereigns, soldiers upon him every mark of favor and and conferred ship.
After a stay of eighteen months he returned to England, and on that very day was made President of the Royal Academy in succession to Benjamin West, who had died a few days before.

As old age came upon Lawrence, he became serious and religious, and painted less, devoting
himself more and more to charitable


Portrait of Mrs. Siddons, the Famous Actress.
of his fame. Even until old age, it was said, he
was "assailed by ladies," but, although he fell in
was "assailed by ladies", but, although he fell in
love with both of Mres. Siddons' daughters, and was
for ried. Both of the young ladies, who were mar-
delicate, died, the one, it was said, for love him, the other, to whom lhe llad been love of being so affected by her sister's death that she had painted, would never afternwards portrait he see him.
He was, indeed, danyerously fassinating. "His
character," a lady of his acquaintance wrote of character," a lady of of his acqutyantantance wrote of
him, "was beautiful and munt, to him, "Was beautiful and mund to be loved; his
manners were likely to misteat? without his in tending it. He could not witit in common answer

$$
\ln
$$

of the last stories told of him, indeed, althoun of a small matter, illustrates his unvarying thought
fulness for others "I sat opposite to him at the table," says Wash ington' Irving, in referring to a dinner at Sir Rober
Peel's, "He seemed uneasy and restlose were wandering; he was pale as martble; the stamp
of death seemed of death seemed on him. He told me the fatt ill,
but he wished to bear himelf but he wished to bear himself up in the presence
of those whom he so much esteemed as his enter Cainers."
A few days later, on January 7th A few days later, on January 7th, 1830, he died.
He was buried in the artists' corner of St. He was buried in the artists' corner of St. Paul's
Cathedral, the Earl of Aberdecn and Sir Per
Pedt Peel being two of his of All-berarens.
According to many

Some Old Time Echoes. On Trek in the Transvaal. WE MEET MORE GOOD SAMARITANS, June 16th, 1875.-Another cold, dull day. The
mountain opposite, patched all over wit. gives quite a Canadian aspect to the view from
our window. So, dear old Canada, we think speak of you this morning.... Mr. Clark tas just come in, bringing with him, to call 1 upo
us, Sir Morrison B Barlow, an English baronet, whe Free State, and who larse fine farm in the Ora riee State, and who, happening to be in Har
rismith, from which he lives some two days' iourney Off, has been weather-bound like ourselves. He means to start to-morrow, for he has a very light
trap, and four horses, all eager to face bomewn so they will pull gladly through drifts and spruits which our obstinate beasts would be safe to balk at. He says we would be mad to venture until we
have given the sun and wind a day or two lorger to dry up the boggy places which we with our heavier vehicle cannot possibly avoid. Sir M.'s hearty, cheery manner and kind greeting acted
like a restorative, and his thought like a restorative, and his thoughtful offer of help
and hospitality should we need it later on as indee we did, when we passed near his place,drove awiy the dismals, and replaced resignation with hope He and Clarke promising to escout our route clearly, first bad "drift" we must go through not far from Harrismith, and Sir M. promising to secure for us the game not given a certain Dutchman, Placid would do so when thus requested. Should our horses again fail us we might, thus introduced, count upon Placide's oxen to pull us through Satin
Spruit (suggestive name), at the foot of his We were to have left Harrisburg two days but on the morning of the 14th, after we had arranged our packages in their usual condensed
form, John came with the orm, the horses must be then Seeing that it costs 17s. 6d., i.e., four dollars and thirty-seven to get each horse shod, and moreover. time for the process, to say to nothing of very leisurel. ing of the already very heavy hotel bill, it is not Me be wondered at that we were keenly disappointed bility of obtaining oxen to replace our skititisi steeds, when we are fortunate enourh skittish promising to Barlow's farm, he in the meantime of animals amongst the Dutch settlers with when was on sufficiently friendly terms to who proposition which would assuredly be met with b b
denial if
it came from ourselves without the diploin their midst for his nationality to to ong enough given him.
The story of the next few days would take up too much space to be given in detail-but it recover and over again to the rescue, until we arrived weary but with renewed hope at

LEON KOPJE, OR LION MOUNTAIN. As we neared the Ranch, we were met by Mr .
Crayncau Sir Morrison' hand or lieutenant, but indeed it is difficult to de-
fine what he is to his chief to discover what he is not ! To us, he proved another good Samaritan indeed, and I can only say The first bit of good news Mr. Crayneau brought us atter conveying the message telling of the wel
come awaiting us, was that Sir Morrison had already secured for us a small span of trained and salted" oxen, i.e., acclimatized and inoculated at a fair price to take us to the Transvaal."
I may just as well note right here she ous drawbacks to travelling in South Africa, one Which is probably much modified under the more
civilized conditican one effect of climate and disease upon animals. Natal oxen or horses could not live in the Transvaal And vice versa, although those of the Orange Free yaal. Ours did ctance of surviving in the Transception until we reached Natal the followis Natal the following one of welcome at Leos Kopjent must ever remain as
a veritable City of Refugeries of my life. It was
A calm after a storm. one of the pleasantest memories of my life. It was
a veritable City of Refuge. A calm after a storm.
By Sir Morrison's instructions our wago wa

AUGUST 29, 1912
drawn us in front of a new house he was buildin
not yet sufficiently complete for occuruation Wee were not the only wayateremptuon reeever
 uike ourselees, had oome to grief by the may, had
 "Trid deo the bet t can for son, "aid our hest,



 of botiles and such ilke al
 tiso own comifotings purpose.

 thad never numbered that amongst my merdey







 | morkt either. Sir Morison had burat up his hast |
| :---: |
| precount |







"Yourt traps ate reade"," said our host, "and


 moon impesibe Each animal remonds to it

 Eumpmentatal. $A$ As watheced the steady pad, pad of our oxen


$\qquad$

 trdering a hatit and bibidnang yip ymon the stound






 and the Tranamalal.


The Windrow

## epinater, whether shan be overy wor, occunier, widow or lod ger

 enjoys haf of her husband's personal estate, and
of conot be deporived of this by will. The sale
of cigaratese and of cigarettes and intoxicants to children was for-
biden in Man or years before such a prohibition-
wain


Miss Jane Addams IThe noted social worker, of Chicago
who seconded the nomination Roosevelt for a third term as President
of the United States, at the rean of the United States, at the recent Na -
tional Progressive Convention.]

The Panama Canal is now five-sixths finished Not later than January, 1914, iv will be ready for of the opening, sayy Emory yohnson, Special Commissioner on Panama Traffic, "a fleet of men-of-
war, representing the navies of the world med in imposing procession from Christobal to Ballasoa,
followed by another equally followed by another equally large fleet composed
of assembled passenger and freight vessels flying the flags of all maritime nations. Thus will stately of centuries." The total amount required for the
construction of the Canal is $\$ 375,000,000$. "Every Atlantic and Gulf port," says N.
Independent, "is to-day enforcong strict preca tions against the spread of the buboricict plague into
this country." Nearly all the cities on the Atlantic Coast of the United States have been o
dered to urge the destruction of rels and feas the most common means of spread-
ing the disease. Should we, in Canada, not help ing the disease. Should we, in Canada, not help
in the work by exterminating the rodents on our
own premises? There has been a remarkable in. crease in the number of rats and mice in many
parts of the Provinces during the past two years, parts of the Provinces during the past two years,
and should the bubonic plague, "the Black Plague," once gain ingress it would, without doubt, spread
with incredible rapidity, as it has done in the old World at many times in its history. Precautio

## Hope's Quiet Hour

## Excuse-Making

They all with one consent beg

How well our Lerd understands the
ways of men. We have high ideals, but
ways of men. We have high ideals, but
are very quick to make excuses for our-
selves when we have done wrong or when
we want to shirk we want to shirk some plain duty.
wnce, when our Lord was eating a Once, when our Lord was eating a Sab-
bath-day meal in the house of a rich
".Blessed is he that shall eat bread in the kingsincere in his professed admiration for
things religious, perhaps he was-almost unconsciously-trying to say something
which the company at the table would approve. But He Who knew the human heart answered with the story of the
great supper, where all the invited guests -who had evidently sent no refusal when

$=$

## roo besi

feeding attend to his daily duty of turned his back on his Guest because he first place. But he desired no excuas for escaping the interview with his ioved
Master. Back he hurried, at the very first opportunity, and enjoyed its sweet
ness kneel before our Lord, at home or in too often we hurry through our us prayerg making the excuse that there is so much to do, and not really caring for His disThen there is another kind of excusemakimg which we are usually very good
at-making excuses for our own sins This is a tendency very deeply rooted in our race. Adam knew he had done
wrong when he disobeyed a plain command of God, but he said not one word blame on Eve. It is an instinct with
us to try to cover up our sins, but it is a poor way of curing them. If we con-
fess our sing, God is faithful and to forgive us our sins; but, if we refuse forgiveness would only fortable in wrong-doing, and would harm There is a story told of a city down
South which had a most disreputable row of houses. Dirt and squalor reigned
unheeded for years; but the Dresidene unheeded for years; but the President of
the United States was about to pass that way, and it was felt that some-
thing must be done to prepare for him. clean up this "festering arrangements', Not at all. A fence was swiftly built to hide all unsightliness from the digtiaguished visitor; and thinge were made
tar worse than before, because the filthy
shacks were shacks were no longer an eyesore, plead-
ing for improvement from every passer-
by Sometimes a soul acts like that. There is some ugly, deliberate sin, which is
slowly but surely poisoning the whole life. Instead of bringing it to the Good
Thysician Thysician, asking Him for cure, and then
faithfully taking the remedies scribes, a fenee of reserve is maintained frankly confessed, but other sins ar and shame and disgrace-and, besides, the
sinner does not want to give it up. He
would like to berdd secret sin, but rid of the misery of the secret sin, but does not care enough
about the cure to go through all the
e; for all and endured. It is is must be faced and endured. It is so easy to malke excuses, to refuse even to look honestly
at the ugly, festering spot. A man has
atold else. a lie which is an injury to someone else. He hates lying, and has a reputaso he makes his very truthfulness antain, cuse for refusing to righit the wrong. he matter cannot be set right without borering him in the respect of his neigh-
bors. he builds a fence in front of the living lie and does his best to forget it himself. Yet it is not cured, it is a in his efforts after holineges him weak not kneel at the fer holiness. He dares himself unreservedly at His disposal He himself unreservedly at His disposal. He
knows that if the order should be given to right the wrong-to the best of his
ability-he is not prepared to obey orders. The sin cannot be forgiven until lessed to God, and, is necessary, to man.
The manufactured excuses would look The manufactured excuses would look
very poor if held up to God and told out before Him in plain words, therefore they are held in reserve, and the secret sin is not mentioned when the daily
prayers are zaid. The publican in the parable was justified because he frankly
acknowledged his sins. The thief on the cross publicly owned that his dreadful punishment was justly deserved. These mén offered no excuses, but they did not

- like some hardened sinners-defiantly and without shame, acknowledge their sins. The sinner who was ashamed to
raise his eyes to heaven, raise his eyes to heaven, lifted his heart
there, and the Lord drew near to the humble one, as St. Augustine says,
Let us throw away our excuses, which
build barriers between our sick souls and build barriers between our sick souls and
the Good Physician, and tell Him without any attempt at justification the sin which we have tried to forget. Con-
science is too faithful to allow us forget, though we may hide it for a
time under the threshold time
ness.
under the thesher man who once had the terrible experience of lying in a hollow between the rails while a train ran overhead, said that his past life was present to
his memory with wonderful distinctno during those awful minutes. Thing which had been apparently forgotten for years, were as vivid as if they had only toreroom. Thoughts and acts of long the light any day, with ar may come to consent. We can't forget by trying, and probably we never really forget any-
thing. It is wise to throw open to the Master of our souls the door of that storeroom, and deal as He shall advise
with all the secrets stored the wrong done to another can there. No given-the dark spot washed out in the Fountain God has provided for sin and uncleanness-until all possible steps have right the wrong. Confession taken Who already knows the sin-may not be wronged brother. But, if the latter is wise the sinner dare not ask repentantly for God's pardon.
ately weakened by an old never been honestly shown to the Good Physician. Those who treat an earthly physician so insincerely can hardly gain
much help from his skill much help from his skill. When a canhidden from one who may be able to cure it, why do we care less about diseases of the soul? The body will decay must go on living-can we endure to be diseased in soul, and only malke excuses to try to hide our condition from Him Who still has power on earth to forgive
"Man looketh on the outward appea heart." Outward respectability is worth pute in His eyes, if it is only a sence fence is thick enough or high enough, no untrue excuses are plausible enough to Lover. He loves in or our Divin be comfortable in secret sinning escape wholesome correction.
'That punishment's the best to bear And guilt's a game where losers fare Better than those who seem to win."
DORA FARNCOMB.

The Beaver Circle．

## OUR SENIOR BEAVERS．

 ［For all pupils from Senior Third toContinuation Classes，inclusive．］

Bpinging：Autumn In． By Annie willis McCullough． Grandma＇s paring apples，
Sign that＇s full of chee Sign that＇s full of chee
Summer＇s nearly over， Summer＇s nearly over，
Autamn＇s nearly here．
Cozy Cozy evenings coming，
Mornings brisk and Mornings brisk and
Long vacations ended， Long vacations ended，
Busy times at school．

Grandma＇s paring apples，
Some of them she dries，
Some of them she dries，
Some make sauce and puddings
Some make sauce and
Some make spicy pies．
Pantry smells delicious
Pantry smells delicious．
Pockets bulge out wide
Pockets bulge out wide；
Children with their baskets
Chindren with their baskets
Roam the orchard－sidet．
Grandma＇s paring apples，
Nicest time o＇year；
Firelight and lamplight
Fin the house with cheer
Odors sweet in cellar，
Rosy fruit in in
Rosy fruit in bin；
Grandma，paring apples
Grandma，paring apples，
Brings the autumn in
The Wild Flower Compe－ ）tition．
Dear $\begin{aligned} & \text { Beavers，－You will probably be } \\ & \text { anxious to know who the prizewinners in }\end{aligned}$ anxious to know who the prizewinners in
the last competition are，so here is the list，right at first：
Prizewinners．－Frank Justin，Lisgar，
Peel Co．，Ont．，whose drawings Peel Co．，Ont．，whose drawings were
very good，and whose composition was the most interesting one sent in；Myrtle McLaughlin，Chesley，Bruce Co．，Mrtlo， Whose descriptions of the plants were
very good，and whose drawings were the best sent in；Amy Seburn，Longwood，
Midlen Middlesex Co．，Ont．，and Ethelbert Reive，
Kingsville，Essex Co．，Ont． An extra award was given to little
Eva Deshaw（age 11），Duart，Kent Co Ont． fred Colwell，Ariel Moore，Ethel Caisley Russell Salter，Elizabeth Landrigan， Audrey Kelly，Irene Getty，Helen Scott， Hugh McPnerson，Marjorie Scull，a Bea－
ver from Walker＇s who forgot to sign name，another who forgot to give either name，and
name or post office．
Ameng
Among these were several who came
very near to getting prizes of Alhretta Calvert，Ariel Moore，work Elizabeth Landrigan，was almost good enough．－By the way，Elizabeth used both
sides of the paper． sides of the paper．Only one side mus
be written upon when the work is in tended for the printing press．－Winifred Colwell＇s descriptions were excellent，but
her drawings were lacking Hut her drawings were lacking；Hugh Mc
Pherson＇s drawings were very fine，but his descriptions were scarcely full enough； Russell Salter wrote very good descrip－
tlons，but included bloodroot tlons，but included bloodroot among the
flowers chosen，whereas the choice was to be confined to flowers the choice was
during in bloom during July and August．
Now for the work itselif：The list of
fowers drawn and described was one，including ox－eye daisy，milkweed foxtail，chamomile，yellow water lily， red Canada lilies，tansy，mayweed，heart
weed，white
musk mallow， mallow，bouncing Bet，black－eyed Susans or cone－fowers，ragweed，night－flowering catchfly，buttercup，wild peppergrass， golden rod，wild rose，yarrow（one little
girl called it＂＇marrow＂），red clover，fall dandelion，butter－and－eggs，wild mustard， plantain，and sow thistle． A few garden flowers were also includ－
ed－sweet peas，yellow marigold，sweet William，and tiger lilies．We had really meant that wild flowers only were to b＂ taken，but as we forgot to say so，these
letters were considered with the rest． By the way，I was much interested the drawing of a＂milkweed＂sent by Marjorie Scull，which appears to be have ever seen．I wish mhe would send me a plant of it when it is in bloom next year．
We are only going to publish parts of
the most of the
are so many letters to quote from． are given，as well as selections from

OX－EYE DAISY－
OX－EYE DAISY－CONE FLOWER－ Dear Puck，-I tried the last competi－ only got in the Honor Roll，which better than nothing．I live on a farm， and we have，as nearly every farmer


Cone Flower，or Black－eyed Susans．

The frst flower I am going to de crive is the ox－eye daisy．This is its we white daisy，white weed，or poverty
wed．The botanical name is Chrysan－ themum leucanthemum．It has short，
strong roots，from which branch out strong roots，from which branch out
several stems．As you walk through a
meadow white heads of the flowers wodding gaily

in a summer breeze．The flower has large number of rays，which are pure
white．The flowers are wnite．The flowers are from one to two with the white rays arched around withe yellow disk．The seed is angled，
witernate black and white，which can be seen with the aid of a micro socpe．The otem is trom tee inches id
easily．Tew leaves，which you can pull off row，and are also long． One day as I was walking through
pasture I came across some yellow flow－ ers．They are called cone fill fow－ black－eyed Susan．Rudbeckia hirta is the botanical name．I have also seen the
plant in meadows．
The flower is made plant in meadows．The flower is made
up of about fifteen yellow rays grow－ ing around a small，brownish（with a ittle touch of purple）disk．The stem number of hairy leaves．These leaves number of hairy leaves．These leaves
are hairy，thick，and oblong，and taper
towards the end． owards the end．The root is fibrous，
and spreads out like that of a pine tree． The seeds are a dark brown color． As you go out for a walk to gather wild flowers while you are visiting your country cousin，you will very likely find
for your bouquet some buttercups，or for your bouquet some buttercups，or
Ranunculus acris．It grows in pastures，
but cattle will never but cattle will never eat it．The roots
are of a flbous nature，and are rather are of a fibrous nature，and are rather
hard to pull out．If you examine the leaves，you will find that they resemble those of the bloodroot a little，as they appear to be divided into parts．The
stems are from two to two and a et high，and somewhat hairy The flowers consist of five yellow petals．
You will find them blooming from June You will
till frost


Mayweed，or Stinkweed．
（The name of the Beaver who drew this
was，
Well，Puck and Beavers，I must close，
wishing the wishing the Beaver Circle every success．
Lisgar，ont．FRANK J．JUSTIN． BOUNCING BET，MUSK MALLOW， Dear Puck，－I am Susans． drawings of three weeds that bloom the in July and August，－bouncing Bet，whit
nusk，and black－eyed Susans．
Bein and Buancing Bet is a very bad weed to spread．It will grow in any keed to
soil．The blossoms are a pink kind of soil．The blossoms are a pinkish－white，
some tinged with purple．When it wes first seen around here it whan it was
beds，on peoper－ beds，on people＇s lawns，but it was soon found out it would spread and they
started to pull it out，but when the
roots get suta started to pull it out，but when the
roots get a start in the earth it is very
hard to get it con hard to get it completely killed． roads，or anywhere the sod is seldom
and roads，or anywhere the sod is seldom
broken up．There are two colors and pink，and they are very two white The leaves are prettily cury pretty．
flower is quite larga and the dower is quite large．The stems are
downy，and it has a sweet smell
nusk lowny，and it has a sweet smell．${ }^{\text {are }}$ The
husk grows in bunches，

Black－eyed Susans are very prett hey have bright yellow rays，with
rownish－black centers，from which the derive their name．They may be found in orchards or hay meadows．They also prefer sod，growing in rich soil to a
height of two or three feet，and in small clusters．They are species of the remain，AMy SEBURN． Longwood，Ont．

（Drawn by Amy Seburn．）
Yellow water lily，spatter dock（ Nu － $\begin{array}{ll}\text { phar lutea），belonging to the order } \\ \text { Nymphaceex．} & \text { Nuphar is said to be de－}\end{array}$ rived from the Arabic word neufar，sig－ nifying pond lily．）Found growing in
extensive beds，often mingled with the
white white water lily．The sepals are sonn－
times finely－cle times finely－clouded with red on the
outer side，but are of a deep oran， yellow on the inner a dide．The oranete．
and stamens are also of a deep orange．


AUGGUST 29, 1912
THE FARMER'S ADVOCATE
" And there the bright Nymphera loves
to lave, And spreads her golden orbs along the dimpling wave." Before I close 1 wish to thank you, Puck, for my prize in the last competi-
tion. I have not read it all yet, as only received it yesterday, but I am well pleased with what I have read. I wish
to thank you also for my other two prizes I received for other compositions.
With best wishes and many With best wishes and many thanks.
WINIFRED Brookville, St. John Co., N. B.
night-flowering catchfly. (Part of Helen Scott's letter.) The night-flowering catchfly is an un-
attractive flower. It closes up its petals in the daytime, but at night, it you happen to see it, you say, "Oh
what a pretty flower !", It grows to the height of two or three feet. The
color is white, and it has color is white, and it has five small
petals. The stem is branched, and the
leaves. are leaves are opposite each other. The
calyx is large and the teeth short. The
plant is covered with gtichy plant is covered with sticky hairs. It
usually grows at the edge of a usually grows at the edge of a swampy
piece of ground. It belongs to the pink family. They. flower in July. I found the one I drew under a willow tree. BUTTER-AND-EGGS. (Part of Alhretta Calvert's letter.) Butter and eggs is a flower that
blooms from July until October. found along fences, by the road, and on waste land. The top lip of the flower is pale yel-
low, while the bottom one is also ye low, while the bottom one is also yel-
low, with some orange on it. The orange part is covered with a soft, yelow plush. Inside the flower's mouth is a pale
yellow pistil, surrounded by four pale yellow pistil, surrounded by four pale
yellow stamens (two tall ones and two short ones), which have a little brown nob on the top.
At the bottom At the bottom end of the corolla is a
short yellow tail, shaped something like horn. Under the corolla is a calyx of five small, pale green, pointed sepals, which tender stem. This small stem is fastened onto the main stem at the top of The main stem is small, and of a
the The main stem is small, and of a tough. It grows from six inches to two and one-hali feet high.
The leaves are long
The leaves are long and narrow, with a strong vein up the center. They are
very much like blades of grass. They fasten on to the stem about one-quarter of an inch apart until they get within
about six inches of the ground, and there they cease.
The root is white, and very hard to break. It grows from two to six inche long, and is thickly covered with little
fibres.

OUR JUNIOR BEAVERS. [For
Junior
all
Third,

The Middle Child Whenever By Ethel M. Kelly And mother sends for us It's always 'bout the baby the
They make the biggest fuss. They make the biggest fuss.
They say, "She's sweet as she can be 1 " "Her hair, just see it curl ",
They never say such things to me, They never say such things to
'Cause I'm the middle girl. And then they say to sister, "Why, Is this the oldest child? She'll be a woman by and bye
And after they have smiled And after they have smiled Mamma says, "She's begun To lose her teeth," and then they laff-
'Cause I'm the middle one ause I'm the middle one Then baby speaks her little plece, And sister's asked to sing;
But no one ever seems to guess That I do anything.
Although my name is Marguerite, And Marguerite means "pearl," Nobody thinks that I'm sweet,
Cause I'm the middle girl.

A family of my and when I have 11 send up for the middle girl To come down-stairs alone;
And I shall let her speak and sing And have a lot of fun,
ril not deny her anything 'Cause she's her anything

Junior Beavers' Letter Box.
Dear Beavers, -I have read so many of
your, letters in '"The Farmer's Advo your letters in "The Farmer's Advo-
cate", that I thought I would too. We have a 200 -acre farm, have a lot of cows and sheep, and six horses. We call our farm The Maples.
My little brother Cecil ing on a load of hay with father ridthe load upset and buried us all. We all got out ourselves but Cecil. Father and Billy soon got him out. I tell you
he was scared, and so was I. was scared, and so was I.
TOM McFADDIN (age 9, Jr. II.). Millbank, Ont.

Dear Puck and Beavers,-I live on a school with mile from Millbank. I go to We have the very nicest teacher scholars could have; her namp is Miss McKee.
We have a garden at the also some parden at the school, and
dome plants in the windows. MARGARET MCFADDIN Millbank, Ont. (Age 9, Jr. II. Class).

Dear Puck and Beavers-Another
Beaver Beaver has come to join -Another little
ing Circle. I ine interest spent my holidays it Preston, but I Rockwood. My father has bucle's near
.'The Farmer taking year. I like reading the let nearly a I would like to join your Circle. I will close, hoping my letter will escape the w.-p. b. I wish the Circle every suc-
cess.
LILLIAN HOLTZHAUER


Dear Puck and Beavers,-This is my
first letter to the Beaver Circle first letter to the Beaver Circle. My
daddy takes "The Farmer's Advocate." I am only a little girl eight years of age. I go to school every day. I have one sister and two brothers. Now I
must close and say ust close and say good-bye. g. GATES. -
Dear Puck and Beavers,-I thought I would send you just a few lines.
father has taken cate" for a number of years. I enjoy reading the letters when there are any in. I have one brother. II go to school every day. I have a mile and a
quarter to go. My teacher's name is Miss N. Corman. I am afraid my letter will be too long, so 'I guess I will say good-
bye. bye.
London, Ont.
$\begin{gathered}\text { CHRISTIAN PACK } \\ \text { (Age 8, Sr. II.). }\end{gathered}$,
Dear Puck,-Daddy has taken your paper longer than $I$ can remember, abou
sixteen sixteen years, and likes it fine. I start-
ed to school the, last week of last September, and went nearly every day lapt
winter. My teacher prometed winter. My teacher promoted me to the Samma Book before school closed, an
mame a big doll because I ha my lessons well learned at school. IIy doll is a beauty, with real ey-lashes and long, curly hair, and is 25 linches tall I call her Leona, I have pore uttle
brother and a little sister! I'il tell you


An Autumn Sunset

## (Do You See This Stable P it Coste Big Money to Winter Cows in a Stalble Like This Dict

What About the BT. Steel Stable Equipment $P$ Will It Better Conditions ?
 in the wornd. It destroys the disease germs
 The The Steel Stalls and concrete foors do not soak up the manure.
 Br Stall Equipment Iines up the eong and short cows, so that
all droppings sall rikht into the enuter, and the carte-stand remains clean. All manure is in the guter and very nitite time is is requiried to
clean the stable.e out itete paratition protet the cow. They allow her toget in and
neighor. stal easily yand yet revevent her being trampled on by her



 the bt aluging device

 any by us. Trotects the cow, Prevents her being trat
moby her neighbor, no matter what way she






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II McLeod's "SPECIAL" is a very high grade blended flour, ground from the finest of Ontario Winter wheat. A most excellent flour for bread and pastry baking. It is a most economical and satisfactory flour for family use because it requires less shortening for pastry and requires less water for baking, and you may always have the assurance of uniformity in quality and that the highest, and that McLeod's "SPECIAL" will make every loaf of bread a loaf of satisfaction, because
McLEOD'S FLOUR IS ALWAYS RIGHT

The McLood Milling Company, Limited

afraid you will be too busy to read a
more this time, so, good-bye.


## The Ingle Nook.


Dear Ingle Nook Friends, -One has
often heard motorists say in regard to often heard motorists say in regard t
horses frightening at automobiles, "Oh horses frightening at automobiles, "Oh,
the people, (they usually say "the farm-
ers") are more frightened than the ers") are more frightened than the
horses." Well, I have reason to know that, in one instance at least, this was
true, and I can assure you that the
mere experience of receiving mere experience of receiving a tritht of
this species is not altogether a this species is not altogether
pl-asant one, however ludicrous it may
appear afterwards. There is nearly
uncertainty in meeting an auto when
driving ; one can never and of driving; one can never tell just how
the horse will act. No matter how com-
paratively accustomed to meeting motorparatively accustomed to meeting motor-
cars he may have become, there is no feeling sure that this time some unac-
countable kink may not enter his countable kink may not enter his dim in-
telligence, and cause him to cut capers,
and so one can have tittle and so one can have little sympathy
with motorists who positively seem to with motorists who positively seem to
blame buggy-occupants for being nervous. To be sure, the kink often manifests. itself in the opposite direction, mand thests
unless one's bump unless one's bump of humor is sufflcient-
ly developed, the situation may become rather embarrassing. Upon this hangs
my special tome tome my special tale, which seems so funny,
now that the incident is past, that I must tell you.
One day, during my recent holiday, (which, you will think, I cannot get away
(rom at all,) we "swomen folk" upon a ten-mile drive, to visit decided As the "good" horses were busy, we
elected to take an old nag that had been elected to take an old nag that had been
left to roam about the pasture, at her
own sweet will.-Yes, she might "scare" at an automobili,e-s.she had " "cut up,"
dreadfully on meeting a motor-cycle not dreadfully on meeting a motor-cycle not
long before.- But, -well, we could follow
the back roads, there would not likel be automobiles, there.
Of we set, paid our visit, and started Off we set, paid our visit, and started
off cheerily for home; all had gone
'merry as a marriage hell, ") merry as a marriage bell," so far. But
one cant congratulate one's self too
early in the day in these precarious early in the day in these precarious
times. on the very last stretch, the
very last two-mile stretch road that might have quieted the heart of the veriest autophobe (I haven't seen
that word used, but it's a good one,
inn't it ? the now une isn't it ?) the now unexpected happened.
My mother and I were sitting quietly. My mother and I were sitting quietly,
looking to either side, and enjoying the
peaceful scenery we couldn't peaceful scenery; we couldn't look before,
for Frankie had on a big hat that oblit-
erated the landscape in that erated the landscape in that direction.
Frankie, you must know, sat on our knees, and, by meason of such on our our of
vantage, had been constituted general lookout and starboard watch. The road
was narrow, very narrow, with marsh
pressing close pressing close on either hand, so that
even bugkies meeting at that point wit accustomed to meeting on that point were
hillok immediately betore, the a small
ho arrive waiting tore one
mas near home, wo had reached the hill
Country, and our hearts mere call But, oh, the times. the times 1, Shanl
wo over Know smeet pounimity -Alt on the suden Prananitity again Thered an anto coming down the BiLM over the wheors, in in immininent dinner out



 tor me I had one wild vision of the
aunto gaining momentum on the Big Hill. and
 and straight into ourf torrifed old hill hoorse ering,"," as the old dame in "hank-
Rivers" used to Rivers" used to say, to be an ingredient
of this mix-up, I too tumbled out, of this mix-up, I too tumbled out, and
when the auto drew up on top of the hillock, quite obediently, in an of the
in anser to my mother's signals of distress, the sight that met the eyes of the occupants was

- Frankie and myself, at either side leading the old nag along the road, as Out got a man to help in the leading
process, and-would process, and-would you believe it ?-
that contemptible old beast never even in-
creased her walk to creased her walk to a do--trot I On
mild, though somewhat suspicious glanc she shot at the panting motor as she
passed ;-that was all passed :-that was all. Why in the
world couldn't she have kicked up just a little bit, when going by, now that
danger was past? danger was past ? But no; the contrary
kink had entered her brain. of cours the auto folk "ho!-holed," and so did we-but-whisper it-sheepishly. ${ }^{\text {What }}$ Why
hadn't that old -beast had the grace to behave properly?

I have had some very pleasant rides in truth of the motorists' to realize the when ring about an automobile is that own dust." At the same time, during this summer I could not but realize that under present conditions, the motor-car er many rural places is an almost intoland, through irresponsible chauffeurs,
causes other damage, even when the horses are not frightened; it picks up
the very dust the with much expense in hard cash or staaute labor, on the highways, and throws the fields for rods on either side with dust, and choking the breathing pores of the leaves at serious injury to crops, deed, so distressing has this Plague InDust become, that people whose houses chance to be close to motor-frequented
highways are obliged hot the weather, to keep doors dows shut continually, at serious loss to health and comfort.
continual raising of then, too the
dust and throwing it over on to the farms, means a bare bones, or would mean that, were it farmers put upon them. All thich the yet the motorists have paid nothing topay, as yet, practically nothing towards their up-keep
Surely som
vised. Motor-cars have can be de we can't deny that. We can't possibly
exclude them, as the ward Islanders have been Prince Edbut it is to be hoped that, before long,
some plan will be devised, that some plan will be devised, that will
check the dust nuisance, and lift the ban
of of practical imprisonment in their own der which through fear of automobiles, unthe old men, the women populationIt has existing. be oiled, but the difficulty so far is the the
expense. Here then expense. Here then, is an opportunity
for inventors. The man who could vise somers. Tractical man who could de-
down the duat of keeping dise some practical means of keeping
down the dust on motor-infested roads,
would curely be a benefactor to manA sicond suggestion is that certain ists, the remaining days, e. g., market-
days, being reserved days, being reserved for the farmers.
This would certainly be better than the
present This would certainly be better than the
present system-or rather lack of system
-but would
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$\qquad$ insisting that all fruit, ice-cream, con- wished to know what it was, -but, a wful
fectionery, etc., shall be screened from fact !-the Custorns House is but a block files and dirt. This is a good movement and a half away !

c
Paddy's Bundles.
$\qquad$ other cities, and that right speedily. The describe our Home Department to a dot. berries, cakes, candies, etc., exposed not kept supplied in all the "lines." "ver ba
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$\sqrt{\text { LIGHTING }}$ COOKING

In the country home with a
Davis LIghting System
When you seriously study the lighting of your home and barns, safety is the first consideration.


The Safety of Fixtures Fastened permanently to pipingcannot be tipped over, upset or
knocked down like lamps - orna mental and attractive.


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DAVIS LIGHTING SYSTEMS
Are absolutely safe. Making gas only as consumed by the lighted burners. Permitted by all insurance companies. Investigation Coets Nothlng-Drop us a card
to-day, and we will mail you our illustrated catalogues free. DAVIS ACETYLENE CO'Y 360 Richmond St. LONDON, ONT. See our exhibit at Western Fair, in the Machinery Hall.


HAPPY THOUGHT

with higures cut from slices of pickled
beet.
Salad Dressing for Above Salad,-Beat Salad Dressing for Above Salad,-Beat
4 eggs. then pour over them, a few drops at a time, 1 cup hot vinegar, beating
well. Cook over hot water until thick,
then then beat in 2 teaspoons butter, a little
salt, and 1 teaspoon mustard moistened with a little cold water. Last of all add a
dash of red pepper, and 4 teaspoons dash of red pepper, and 4 teaspoons
sugar. All of this may not be required sugar. All of this may not be required
for the cabbage salad-it depends on the
size of the size of the cabbage-but the dressing will
keep a week or more in a cool place. keep a week or more in a cool place.
A Wholesome Aple Pie,-Apple pie with very rich pastry is not very whole
some. Here is a recipe for one that may be eaten with comparative safety Make the pastry tart as follows : sirt 1
teaspoon sugar, a pinch salt, and spoon baking powder with 2 small cups
four. Next rub in 4 dessert spool dripping or or butter, and masert spoons
and dripping or butter, and make into a
pastry with water, adding the water
gradually and mixing gradually, and mixing with a knite.
Now roll out quickly about one-third
inch thick inch thick. Have a pie dish (granite,
not tin) in which put part of the sliced apples, which should be ready and wait-
ing. Sift on a large tablespoon of
sugar, add 2 or 3 cloves, then put on sugar, add 2 or 3 cloves, then put on
the rest of the apples. Brush the edge
of the pie of the pie dish with water, then lay on
this edge a narrow band this edge a narrow band of paste.
Brush the top of this band with water then lay on the sheet of pastry and
press well at the sidea
press well at the sides. Trim around
the edge, and decorate by marking with
the back of a knito pr
the back of a knife or snipping with
scissors, but do not put a hole in the


Cabbage Salad.
water, shake on some sugar, and bake each layer, and let stand four days, then
mash them fine, and to each
win paste seems to be browning too quickly put a greased paper on top. quickiy a kettle of water, then or crock set in A pie made in this way, with no bot- off without squeezing. Boil the later by tom paste, cannot be heavy, if the oven itself for half an hour, let it stand to
is right. When preparing the apples for set is right. When preparing the apples for settle, then pour on the solid part, and
the pie, do not make the slices thin. It seal at once.
is better to core is better to core and quarter the apples,
then cut each quarter into 3 a If they each quarter into 3 or 4 piecese. $\begin{gathered}\text { Tomatoes, Canned Whole.-Choose wide- } \\ \text { mouth sealers, or else simall tomatoes if }\end{gathered}$ $\begin{array}{ll}\text { to be made keep them under water to } & \begin{array}{l}\text { ordinary sealers are to be be used. Stos if } \\ \text { lize the cans, place the raw tomat }\end{array} \\ \text { keep them whiter }\end{array}$ keep them whiter. Be sure to have
apples, not sugar, next to the pastry Green Corn,-4 well-beaten the pastry. $\begin{aligned} & \text { them, peeled but whole. Pour in boiling } \\ & \text { water until full, then put }\end{aligned}$
 the cob, 1 teaspoon salt, 1 tablespoon $\begin{aligned} & \text { boiling water in till it reaches the neck } \\ & \text { of the sealers, put the }\end{aligned}{ }^{\text {of }}$ Stir well together, pour butter. Stir well together, pour nto a of the sealers, put the lid on the boiler,
pudding-dish, and bake for half an hon, pudding-dish, and bake for half an hour:。
This is tasty and very nourishiug. $\begin{aligned} & \text { wrap the whole with blankets, and leave } \\ & \text { until the water is cold. This recipe has } \\ & \text { been taken from }\end{aligned}$ been taken from a sister magazine. The
lady who contributed lady who contributed it states that the
tomatoes done thus were delicious tomatoes done thus were delicious, and
that she did not lose a can out of 40 quarts. I should advise those who
would like to try it, however, to exwould like to try it, however, to ex-
periment first with a sealer or two. If
successful this would surely bo an periment first with a sealer or two. It
successful this would surely be an easy
way of cannin way of canning tomatoes. Chili Sauce.-4 quarts ripe tomatoes,
peeled; 4 peppers
chopped fine; 1 table peled; 4 peppers chopped fine; 1 table-
spoon cloves, 1 teaspoon allspice, 1 teaspoon whole peppers, tied in a bag; 2 Lablespoons salt, 2 cups brown sugar, ${ }^{1}$
quart vinegar. Cook slowly for 3 hours quart vinegar. Cook slowly for 3 hours.
Piccalilli, -Slice one peck green tomatoes and sprinkle with salt.
over night, then drain. stand over night, then drain. Chop the to-
matoes, 1 head eabbage or caulifowe 7 onions, and 4 green peppers, all together. Mix together 1 smarl, cup whole
mustard, 1 cup sugar, 1 cup grated horsemustard, 1 cup sugar, 1 cup grated horse-
radish, and add. Cover the whole with radish, and add. Cover the whole with
vinegar and stew until soft. Cucumber Pickles.-As you gather the
small cucumbers put the small cucumbers put them into brine un-
til you get enough to make the fickles til you get enough to make the pickles.
Leave them in brine from week. The hrine draws out the strong
flavor. Now dissolve 1 teaspoonful
powdered alum ior every
PERFECT BISCUIT BAKING NEED NOT BE DIFFICULT
It all depends on the heat your "Happy Thought" Ranges are per Ren gives. Ranges with slow ovens are all right for some kinds of bis-
cuits. But an oven that is chronically slow simply ruins others, and it is useless for many purposes. Other stoves bake beautifully on one side and not on the other. So you
can never depend on them.

HAPPY THOUGHT RANGES
WILLIAM BUCK Stove co., LImITED, BRANTFORD
Dear
cocur $J$ unia, -I beg an entrance to your
much.orner.
I enion the letters very
much. I would likike to get a nice grape
wine receipt. I I hope I am early ene whe receipt. 1 hope 1 am early enough to
have it or the grape season.
wishing
the corne my leave. every success, ${ }_{\text {Mrs }}^{\text {I will }}$ take
Many thanks tor sending in your quesAugued time. Your letter arrived each gallon of Here is your recipe : Thrt of boiling watery , let frapes add a
ght and strain.
To overy a few pieces of well-tonated sugar. Drop hasten fermentation, let stand in in the and seal. As many people do not helien Incermented wine, here is a recipe
 Nashed. Let cipe grapes, stemmed and
ad boil ive mi to a beiling point A boil five minutes, then strining point
fine muslin.

AUGIIST 29, 1912
water needed to cover the cucumbers; alum prevents shriveling. Take the cu-
cumbers from the brine, rinse them in
frester iresh water, then place in a granite
kettle, laying, alternately, layers af green grape leaves to help preserve the color Pour the alum water over and bring to a scalding point, then shove to the back
of the stove and let stand, closely covec ed, for two hours. Now draw the cuwater. Next make the pickle vinegar
For every quart vinegar needed to the pickles, use 2 teaspoons cinnamon 2 of cloves, 1 of mace, 1 of celery seed, tard seed, \& teaspoon black pepper, a
pinch red pepper, and 1 cup sugar. Mix the spices together dry and then tie
them in a muslin bag. Heat gar to bolling point, put in the the vine
the sugar, the the sugar, the boil 15 minutes. Drain them into jars, and pour the vinegar Indian Chutney.-Boil together $1 \frac{1}{2}$ doz.
sour apples, 3 pints vinegar, 1 tb raising

 gartle, red pepper, when well cooked, and a

News of the Week. Canadian.
Two new townships have been opened
The Toronto Normal School property Schools built on a different site. Ten thousand people left Toronto for
the West on the first day of the Harvesters' Excursion last week the Har The McGill medical course has been
engthened by a year, five years instead of four being now required to graduate The city of Brantiord, Ont., has petitioned the Provincial Government for the
construction of storage dams along the Grand River, to conserve the water sup ply and prevent floods. One thousand men were prospecting on
the Gillies limit, Northern Ontario, with the Gillies limit, Northern Ontario, with-
in 12 hours of the time upon which it was thrown open for the staking of
claims. The right to cut pulpwood and timber
in the Abitibe pulpwood limit, cently acquired by Messrs. Ogilvie and
Anson, of Montreal, who will establish a

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See that the Piano you are thinking about buying is par value for your money
B UYING pianos on faith may be popular, but it's not good business. We always strongly
 advise them to investigate other makes-anning we our pianos with the best made and form their own

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 20th Century Piano"Canada's Biggest Piano Value" sweet ingerertearue making for piano encellence it that its
endure
 Our factory is thoroughly modern in every way-
equipped with the latest labor-saving machinery and $\begin{aligned} & \text { But, have some Inside informatlon which we } \\ & \text { would }\end{aligned}$ like you to consider before buying a piano who joy in their work. This combination proficient men We can show you how you may own a Sherlock highest possible plano value at the lowest cost consistent with quallity.
Write us direct and we will tell you where you can see a Sherlock-Manning-how you can save $\$ 100$, and yet be perfectly sure that your piano is par value for the money.
Sherlock-Manning Piano and Organ Co. London
(No Street Adress neecesarar)
Canada

## COWAN'S <br> raticna COCOA

"Couldn't wait, Grandpa"

Cowan's
Cocoa shares with milk the first place as a drink for children. A pure Cocoa, it contains nerve, flesh and muscle - building material Made with milk it is a perfectly balanced food, as well as a drink the children love. YOUR GROCER HAS IT The COWAN CO, Limited TORONTO


## POULTRY COEAGS OA

Condensed advertisements will be inserted under
this headin at tot centsp per word aech insertion.
tish
this heading at two cents per word each insertion.
Each initial ocunts for one word , and figuref for two
two
Word words. Names and addresses are counted. Cash
must always accompany the order for any advertisement und der this heading, Parties having good
pure-bred poultry and eggs for sale will find plenty pure-bred poultry and eggs or sate will inm plenty
of customersy usin ouradevtrising colums. No
advertisement inserted for less than 30 cens. advertisement inserted for less than 30 cents.

 each. B. P. Rocks, White Wyandotes. R.C.R.I.
Reds and ©. White Leghorns. Write ot-ory or
Rilustated catalogue. L. R. Guild. Box 16 , Rock-

| $\mathrm{S}^{\text {INGLE }}$ els. $\$ 1.00$, single Romb White eghorn Cocker- <br>  \& Ansiead, Box L. Paisiey, Ont. | Jammed on my emergency brakes one day and says to myself. 'You mutt, where |
| :---: | :---: |
| White Leghorn Cockerels For From the Cyphers Parm, Buffalo, sit oo each sale Address C. C . WILSon. Tamblizza Cor. Ont | slough this rough gruf you're shovin' across on your unprotected friends? You never will land a Jonny-boy that's |
| 'Yess, I've cut out the slang stuf,'" Nell was telling her latest 'gentleman friend." "Gee, but my talk was gettin' fierce! $I^{\prime} d$ worked up a line $o^{\prime}$ fablo material that had George Ade backed off the map and gaspin' for wind, but I've ditched all that now. I seen it was up |  |

Jammod on my emergency brakes one days you think you'll wind up if yout, where hough this rough gruf you're ehovin' your unprotected friends?
 want a real, bang-up fin his cupola to ike a b instead of a skirt that palavers gear.' Any girl can a busted steerin' o stretch her neck when to one than says to yours truly, 'It's time to to reform-
ate your grammar, Ittle sister, hed all that now. I seen it was up

## MUSIC AT THE EXHIBITION and MUSIC TO TAKE HOME <br> When you visit the Toronto Exhibition you will hear two world famous bands, both of which use Boosey Band Instruments, which use Boosey Band leave the City visit Canadefore you music store, 143 Yonge St musical instrument to help cheer the long winter nights. <br> \$25 <br> \$35 $\$ 45$ <br> Vareni

The VARENI is one of the finest products of the modern violin makers' art. Clear and mellow in tone, a genuine Vareni in the hands of an artist yields music to stir the soul ; or played by one of lesser experience, it inspires and en thuses

Own actise a real pleasure
Own a good violin, or none at all-a genuine Vareni is tone can be obm priced violin made on which a clear, sweet If you are ned and held the full length of the bow. If you are not coming to the Exhibition, write to-day for
booklet " H " of Musical Instruments.

| Mandolins | Guitars |
| :--- | :--- |
| Banjos | Flutes |
| Cornets | Harmonicas |

This may be your last chance to visit us in our brand new ten-story building.

FREE course of instrucTION WITH EVERY instrument

MODERI FARUERS USE ELECTRICTTY OU have heard much of late concerning the manifold uses of electricity
on the farm. The Ontario Government endorses it-demonstrates
its applications its applicalions at the National Exhintition-and is it-demonstrates
sums to provide Niagara Power to accessible farms.




 They an moderaferentione
 s.aranee very Sert and Lurith hit materay for doo:
the masco cumpany, ldd, 205 Yonge St., toronto, can. Electrical Supplies of Every Description.




 muse alvays acompany the order
ment insertec for feses than 50 cents.







FOR SALE-160-acre bub form Nother
 $\mathrm{F}^{\text {ARMS FOR SALE-Improved Welington }}$ County farm. Now is the time to inspoct



For sale





$\mathrm{F}^{\text {ARM FRR SALE-212 acres rich clay }}$ Roan





$\mathbf{W}^{\text {Wind }}$ ANTED-Locomotive firemen. between ${ }^{\text {at }}$


|  tion. $\begin{aligned} & \text { in Northern Ontarion } \\ & \text { Box } 83, \text { Brantford. }\end{aligned}$ |
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## Girls Wanted



| Boys Wanted |
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| Whenwritingmetion this |

## Hairs on the Face



## Hiscott Dermatological Institute

Collars and Shirts to manohester, england of British Industr ou'll save many dollars and
get the best goods. - POST 85 CENTS FOR 6 BENSON NEGLIGE COLLARS
The smartest and Latest Dollar for rough wear
Carriage and Duty Paid.

We want to prove to our Canadian friends "Neglige." This collar is made of a new
SILKY material, it is well cut, smart, and SILKY mate
comfortable.

THE BENSON NEGLIGE NEVER LOOKS LIMP yout will retain its shape however strenuou or country weal
SEND TO-DAY stating size, and , whether M.BE 43, VICTORIA $\begin{array}{ll}\text { Desk. } \\ \text { BUILDINGS, MANCHESTER. }\end{array}$


1 College St., Toronto. Estab 1892
hard at work on the following his sunday', She was a hard, muscoular-look ang womand,
and when the minister set a chair for
her sho her she opened fire somewhat brusquely
"You are Mr. Jenkins, ain't you ?" "1
am," renlied the maybe you'll remermber o' marryin' a
couple of strangers at your church a
month ago $?$ " "What and
anked the clergyman. were the names?", "Peter Simpon
and Eliza Brown," woman, "and I'm Eliza." " "Are you,
inded ?" said the minister. "I thought
 'T'm her, all right, an' I thought as
how I ought to drop in an' tell you that
Deter's aund Eels are the luxury of the East End,
nd a fish shop stuck up proudly the 'We sell eels to the King From the oprosite side of the road the al satesman watched his customers
verted to the shop that claimed to
pily the royal table with eels. And
con, atter a week's reflection, he put up


## "ENTIRELY SATISFIED"

This is the report which we are receiving from our satisfied customers all over the country. They are using

## Harab Concentrated Plant and Animal Foods

Are you one of our satisfied customers? If not, you should be, and you owe it to yourself to write us direct, we will give you trial. Call on our nearest agent. If you do not know him, goods, and tell you how you can do what our satisfiess, geve you particulars and prices of our

CUT DOWN
YOUR FEED BILLS

## Harab

Animal Foods
Give them a trial. They will cut
down your feed bills, and at the down your feed bils, and at the
same time produce better stock,

## FOR HOG

Harab Digestive Tankage Protein $60 \%$ fat $8 \%$, A highly concentrated Beef and
Blood Meal put in the most avai'able form. Has been thoroughly tried and is giving remarkable results
producing better hors in iess
for cattle
Harab Fattein Meal
The original sugar food, made nour own formula from the very and most available form. Will increase their milk fow.

FOR YOUNG STOck
Harab Blood Flour
The Proteln Food
Gives them a fair start. Supplies the strength-giving and flesh-build.
ing properies lackiag in ordinary
farm food

$\left.\|$| GROW BIGGER CROPS |
| :---: |
| OF FALL WHEAT |
| and build up your soil with true |
| plant food, as contained in | \right\rvert\,

Fertilizers
ducts from our prom animal proBlocts from our packing house.
Bone and Tankage thorough ly cooked and cured, ,hen ground
to a fine powder and mixed with Potash in the right proportion to form

## WELL-BALANCED

 FERTILIZERSContaining no artificial plant food
whatever, but only the whatever, but only the Naturail
PLANT FOODS in the most avail

## results count

If you want results, use
Harab Fertilizers On your fall wheat and increase your yield per acre, improve the
quality of your crop and satisfy yourself of your crop and satisfy
yone
use the best.

SHOW A PROFIT
ON YOUR POULTRY feed your stcck Harab
Poultry Foods
Are used bv the best and most suc-
cessful poultry-raisers in the counry. It will pay you to use then

Harab Beef Scrap
Beef Scrap, Chick Scrap
Without drubt the best all-round
Concentrated Poulliry Food on the market for all classes and con-

## Harab Beef Mea

 ror Laying Hens Will keep your hens laying in theHarab Poultry Bone Coarse and Bone Meal Hard raw bones put up in such ood values, they will not spoil a harab oyster shel HARAB CRYSTAL GRIT harab poultry charcoal
We also handle all Standard Feeds,

A TRIAL WILL CONVINCE YOU
that it pays you to use

## HARAB FERTILIZERS HARAB ANIMAL FOODS

## The Harris Abattoir Co., Limited TORONTO <br> Fertllizer Department <br> CANADA

Don't fail to call on us when at Exhibition, at our stand on
the grounds near the Poultry the grounds near the Poultry Buildings

Henry Gatehouse, of Montreal, in his
advertisement,
offers prices for live broilers, chickens, or tive poultry of any kind, in large or small
shipments. Write him ".Dr. Gibson, of Edinburgh, stated a "Dr. Gibson, of Edinburgh, stated a
a meeting of the British Medical Associa tion, that an 18 -year-old boy who wished
to enter Woolwich was debarred because to enter Woolwich was debarred because
of his height, which was an inch below of his height, which was an inch belov
five feet. Dr. Gibson administered thyroi extract, prepared from the thyroid gland
found in the necks of animals as well found in the necks of animals as well as
man, with the result that the boy grew seven inches in six months. Here is a
chance for veterinarians to they can do to increase the growth of farm animals. What about the research
work for which the grant from the De work for which the grant from
velopment Fund was obtained?"
INote,-Readers of "The Farmer's Ad
vocate" may exercise their own judg meate may exercise their own judg-
from an olieving this story, quoted Country exchange. We hope nobody will quote it as being anecessarily
true because they saw it in ".The Farmr's Advocate."

TRADE TOPIC
Seed potatoes of approved varieties C. Fred. Fawcett, of Upper Sackville of grunswick, who makes a specialty
of the best varieties.
He states that many of his individual hills weigh this year that he prices them at the moderate figure of $\$ 1$
and car lots at less.
${ }^{6}$ Her Be Devon
ous was aroused by the sound of boisterkitchen and public sitting-room the lar adjoining the private parlor which had been allotted to me. There was a sliding Window, hidden by a red curtain on th rooms, for the purpose probably of en abling the landlady to keep an eye on loft open, and thus I had of hearing the conversation delivered in the broad vernacular, and without the
 I don't think any apology for listenin
is needed, for it was a public place inn the conversation was not of a privat
nature; in fact, I could not help ing, the vices, as in the case of Mrs.
Cluppins, "forced themselves There were eight or ten men in the room, situng on forms placed against
the wall, and on the settle before the
blazing fire upon the hearth. were a merry party, all perfectly sober; ()
and everyone seemed to be on good () and with his neigh One of them, evidently a laboring man,
in corduroy breeches and leather leggings, with his hat pushed well back on ging fork, which we call - an "evil," in
his hand; and was rearardin tit puzzled look on his face.
"Ourding it with a "Ought wrong wi' thiccy evil, Jobie?" furder apart than two of the prongs be "Be mun tho' let me looky to un," han another, stretching forth a sinewy
hand and taking it. "No, they bain"t
not so far as not so far as I can zee," he added, after
carefully examining it," with his head first on one side, then on the other. "They be, I tell 'ee," asserted Job.
"Hany fule can zee they be; looky you "Dadrabbit me if I can zee any hodds "etween mun, Jobie," said John, having
subjected the evil to a subjected the evil to a close scrutiny.
"Yur ! I've a got me foot-rulo pocket," said a young carpenter. "Lemme measure 'un. There, the prongs be exactly dree inches apart; one ain't no furder
is from h
This pr ered conclusive, and Job was politely old that he must ". be mazed," politely Singling out the carpenter, he said,

AUGUST 29, 191
bet me a pint. I can't prove that tww
of these yur prongs be furder apart tha
tothers !",

likes," cried Harry, laughing. "Then," said Job, taking one of the
outside prongs in his right hand, "thes yur prong be furder from that prong",
here he took in his left hand the here he took in his lett hand the othe
outside one- "than he is from heither
 There wis riumphantly around
 tair, as all the companem had beenhat taken
in as well as he; but he was the only ona rash enough to bet. Was the only
had not to pay, as the landlover, he
hat ing he would not allow betting iectar his
house, magnanimously stood Job the the


${ }^{\text {hath }}$ 1

 "Goddout, 'Arys," exclaimed little sally, Jo, "I, | more good work wi' un andready than |
| :--- |
| thee'st dood all the week. $\begin{array}{l}\text { sticked }\end{array}$ | turt old haidgyboar most zo bity as thy

haid, and wi' all so much zenco aid, and wit all so much zence inzide
un; he won't zuck no more cow's milk,
 enough," said one of the company, whose
velveteens
proclaimed
his
profession
 zeing that haidgyboars don't bear no "What's thee mean, Keeper, they has
 "No, they don't, I tell 'ee, and that I Nows tor zartain.
"What do mun do then," inquired Jo
"lay haigs ?" No, my son, they don't lay haigs,
arid the keeper, and since you'm so shid the keeper, "and since you'm so
hignorant Tlll instruct eee. The haidgy-

## See the Monarch Engine at the Fair, Toronto

 on the market. It ha, adjustable main bearing, large carbon-steel size, sig, ht gasoline gauge, fine carbur-
etor, iron tuel tank, etc. Some styles are air cooled, others
water-cooled. Each part is mate by specialists. It starts at a touch on the
coldest winter ser oldest winter day. Costs a few cent. or a day's power. Lasts for years.
simple and dependable.

CANADIAN ENGines LIMITED


DUNNVILLE, ONTARIO

## POULTRY WANTED



We are open to bandle
Live Brollers, Chickens or
Live Poultry
or any kind in large or small shipments.
Highest market prices paid. Write
Henry Gatehouse, 348 West Dorchester St., DEPT. F. A. MONTREAL, QUEBEC,

Ah, Keeper Stevens, you'm too sharp Mind thee doesn't cut theezel. If the ought for do canst the tell me whe sticks rooks make their nesteses wi'? "Anl zorts of sticks," said Stevens, "Noi they only use two zorts," as "Get along with 'ee I know bettar that; I've zeed mun breaking of bits of beech, and hoak, and hash, and syca-
more, too, and carry mun to their nesteses." Rooks honly use two zorts of sticks," can kiss the Book to." "and that "Well, what zort of sticks be mun, " "Straight sticks and crooked sticks, and no others," said Job, with a very
solemn countenance, "'and I zim that keeper, being a keeper, ought to ha'
knowed it The latter, rather a surly individual,
was evidently annoyed; and as it is alWas evidently annoyed; and as it is al-
ways to the interest of farmers and workmen of a sporting turn of mind to be on good terms witth the gamekeeper, as I ifimfaced old man, commonly called Cried to give the conversation a more
Hleasant turn. ${ }^{\text {pleasant turn. }}$
"I zeed you a-shutting on the warren
this forenooon, Mr. Stevens working to Grange; and I when I wor Reddaway that I'd never zeed prettier sport. A rabbit you vired to come
awhizzing droo the vearns (ferns) awhizzing droo the vearns (ferns) home
by me. He wor travelling like her press
was." "Ah, I believe I did miss one," said the keeper; "but he went like the ver
same, twisting saith. I reckon he was an old custome I've a-shot at before to-day."
"I reckon not," tone, which, however, reached the keep er's ears, as it was doubtless intended
to do. He turned sharply upon the
The Body of Range is
made of best cold rolled, blued,
planished steel, with lining of heavy
asbestos millboard.
Large Top Cooking Sur-
face with wide, short centres
between pot holes.
Hinged Front Key Plate
over fire, can be raised or lowered
by crank.
Oven is perfectly square, large
and well ventilated, and is made of one piece of heavy sheet steel, hand
riveted. No dust. No warping. No cracking. Steel Oven Racks.
Fire Box large and deep for coal or wood. Special wood fire box when
wood is to be used steadily.
Removable Improved Duplex Grate, the best form of grate ever devised.
Ask for illustrated booklet explaining these, and many other excellent
features. JEwEL STovEs AND RANGES ARE, MANUFACrurED BY
THE BURROW, STEWART \& MILNE COE., LIMITED.
AT HAMLLTON. ONT. AND ARE FOR sALE BY
"Wheel the Scale to what you want to Weigh"


##  

You'll Never Buy Fencing as cheap as This. Dyer's at it Again. Great Cut in Prices, if You Order Now
Ten-strand wire fencing, $3^{6}$ inches high, $\mid$ Remember, I pay freight in Ontario and $\mid$ And it's pretty enough for front lawns. top and bottom strands, No 9 guage. North and South Bay. You pay freight 12 guage. Cross oars 18 to the rod, best $\left\lvert\, \begin{array}{ll}\text { outside this district, but you only have to } & \text { So hurry up-get your order in now. First } \\ \text { pay }\end{array}\right.$ e, going for 23c. a rod. pay 22c. per rod.
This is a crackerjack new style of fencing.
Its just great for pigs and
This offer won't, and can't, be repeated Its just great for pigs and small stock.
$\begin{array}{ll}\text { Cost of wire is going up. So get your } \\ \text { order in now-while this tonnage of mine } & \text { Dandy for lane fences, and if you add two } \\ \text { lasts. No three strands of barbed or coiled wire- }\end{array}$ Don't forset to come and see met turn horses and cattle. Dept. Toro


CREAM SEPARATOR, and learn why it has earned the title of the "World's Greatest Separator
See also the "RENFREW STANDARD" Gasoline Engine, which we are
now placing on the market. This is the most imploter now placing on the market. This is the most improved, most economical and movt reas snably-priced engine now being offered to Canadian farmers. The controlled by a fly-ball governor, and it consumes less tuel per hors speed is
cont developed than other engines. Sold in all sizes, with magneto or battery

Toronto, Aus. 24 to Sept. 9
Quebec, aus 24 to Sept. 3.
Sherbrooke, Aug 31 to Sept.
ondon, Sept. 6 to 1
Charlottetown, P ,
Renirew, Sept. 18 to 20 Hallfax, Sept. II to 19. St. John, N. B , Sept. 2 to 0ttawa, Sept 5 to 16 . , Sept. 4 to 7.

The Renfrew Machinery Co., Ltd. Head Office and Works: RENFREW, ONT.
Sales Branches at Winnipeg and Sussex, N. B.

## PIONEER FARM

 SEED POTATOESy the sea that h ,ve proven to give about a double the dow when compared to native seed planted in Ontaris. This
change of seed will make your potato field one of beauty and a pleasure to work in.
Let me help you to make this cbange. Lots or our individ-
at hils weigh ten lbs. Good seed stock is going to be high again this year. Let me send you some this fall. You
can winter them as cheap as I can. "Irich Cobbler,"
"Ea ly Ohio," Delaware, Empire State and Green Moun
ain are goo t varieties. \$1.00 per bag, fo.b.b. here. Bag
C. FRED. FAWCETT, Upper Sackville, N. B.


 white shoon't aat near so much ns my
 ${ }^{2}$
"How do you know?" says he.
and only five black ones,", white sheep, He got quite nifick wi' me, and said I was making a fool of 'un. '"I couldn't
says says 1, very polite; but he lookied
me zo grum as any tiger, and wiod make no answer when I said "good "I've a-took a sight of volks in wi
that there riddle enout sheep," said the old man-who hite
hither and hitherto taken little part in the conver-
sation-knocking long clay pipe, and fumbling in
and waistcoat pocket for a fresh supply
tobacco.
'un," laughed the gamekeeper. "You'n getting so bald as a haig, Granfer Daw.
"A man can't grow too," replied the old man in self de enemy's country, he added, "'Fine thatch as a mat." wi' the soil where no crops won't wrong wi the soil where no crops won't grow,"
said Foxie Jack, once more coming to his friend's rescue.
Just then the landlady came into kitchen and announced that it was nearly ten o'clock, which is closing time for
public houses in the country districts: whereupon the customers finished their half-empty mugs, and with friendly good
nights all round, betook themselves nights all round, betook themselves to
their various homes. I have endeavored to repeat the homely
conversation in language as near to that which they used as I can, but it is im im possible to reproduce the rich west-
country burr, the curious inflection and
intonation intonation of the words, and the soft
pronunciation which they give to the pronunciation which they give to the
letter "un." I have seen words in which
it attempt to give its sound, wat in the tempt is never successful. but the at-
word " dake the," for instance. word "due," for instance. They don't
pronounce it "doo," and if you spell it
""dew" "den"" (as I have seen it done), it only
brings us back to the same sound and brings us back to the same sound; and
though misspelt words may look funn though misspelt words may look funny
on paper, they fail in giving us an ac-
curate rent curate reproduction of a conversation.
To spell cat with a ' $k$," or me with two "ee's"" may be very witty, but it
does not alter the pronunciation of the nounce " "u" as do the French; and ano
amount of misspelling will make in in clearer.-Chas. Garvice, in "A Farm in
Creammand," a tale of the Devon coun-

GOSSIP
$\qquad$ sheep are still the specialties in pure-
bred stock at the well-know where every year shows an improve-
ment in the quality to the care exercised in the selection
of herd- and flock - henders.
more more than ever in evidence, Mr. Foster,
made a happy selection for chief stock
bull when bull when he selected the big, stock
Mayflower-l), hed bull, Royal Chief of Penzance 4711, as his Royal Chief of Pen-
uniform, and leave little remarkably To use oxcellence of their breed type.
the unghters of this bull, 2nd level, even bull, Middlebrook Warrior
2nd 5231 , a Favorite-bred son of the recently $\left.\begin{array}{c}\text { champion, Hundred, has been } \\ \text { purchased. } \\ \text { The breeding }\end{array}\right)$ en Inales of the herd are principally of the
Dewdrop and Caroline tribey coupled with caroline tribes, which,
surely prove a success, bung bull, should the big flock of Dorset sheep is a son
of the many of Romulus. many-times champion, Imp.
He is beeding exceptionally
well, his get showing well, his get showing great strength and
breed character. Write


Protection is cheaper than feed
M $\begin{gathered}\text { AKE your live stock } \\ \text { show an increase }\end{gathered} \underset{\text { comfortable this winter and your profits will }}{\text { Unou put up a new }}$ show an increase hen you put up a new house, barn, chicken Certain-teed Rubber Roofing Quality Certified Durability Guaranteed Comes in Shingles or Rolls
Do you have to feed your chickens additional corn to keep them warm in winter? You can make your chicken house cozy, dry and warm waym using
rertaln-teed Rubber Roofing on the sides as well as the roof. (ertalnteed Rubber Roofing is made from best materials-that is why we guaran-



| GOSSIP. |  |  |  |
| :---: | :---: | :---: | :---: |
| Geo. D. Fletcher, the well - known |  |  |  | breeder of Shorthorn cattle, Erin Post

office, Ont., R. R. No. 1, Erin Station, C. P. R., has a herd of Scotch
Shorthorns (imported and direct from imported stock) which are what might be expected from their choice breeding, and the use of such sires as were used,
the last four of which are $=28259=$, a Watt-bred Roan Lady, and grandson of Royal Sailor (imp.), and a winner at Toronto and London ExhibiCions for three years. Joy of Morning
(imp.) $=32070=$, the Duthie-bred but that sold for $\$ 2,000$ in Scotland, and won first prize at Dominion Exhibition Toronto. Benachie (imp.) $=69954=$, the
A. T. Gordon-bred Cruickshank Butterfy, and brother to Bandmaster, that won
first prize at the Royal and sold for 600 first prize at the Royal and sold for 600
guineas. The present stock bull is Royal
Bruce (imp.) $=55038=(89909) 273853$ bred by Robert Bruce, Heatherwick
Scotland, Scotland, of the Bruce Mayflower family
that produced the Toronto champion bull, Prince Sunbeam, and the two cham pion bulls, Robert the Bruce and Silver
Chief. Royal Bruce is sired by the Chief. Royal Bruce is sired by the
great Wimple bull, Winning Hope (80283), by Golden Hope, dam by Sittyton Yet
(61833), from the same dam as the (61833), from the same dam as the
world-renowned William of Orange. Se
the advertisen, the advertisement in another column,

TRADE TOPIC
LABOR-SAVING IN FARM HOMES. labor - saving devices have been ben much
more unanimously intred more unanimously introduced in the barns
and fields than in the country homes. They are coming, however, at last. It is no
arenger uncommon to see the vacuum cleaner in daily use in farm homes, do-
ing the sweeping, keeping the carpets
clean, dusting tow

Clean Basins $\mathcal{E}$ Sinks
may be had easily, quickly and continually by the use of

The safest, most efficient cleanser for everything about No hirt, grease or and dairy. No dirt, grease or grime can action Th wonderful which often pathers on the sides and bottom of thesink and defies soap and soap cleaning, amputiduc
magic when 0ld

| mutch Cleanser |
| :--- |
| Dis used. |
| Aooid |
| Castics |
| and |
| Acids |

## $\frac{\text { T-A Wheels }}{\text { Defy Bad Roads }}$

Two speed events each day Dog Show commences Tuesday, Sept. IOth
Wonderful programme of attractions twice daily. Besses O' the Barn Band, the great English musical combination. Do not fail to hear them. Special railway rat
Grand Stand Prices - 15,25 and 50 cts.
W. J. REID, President.
A. M. HUNT, Secretary


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Better Butter Ant Better Prices
These are the two big reasons why you should use Windsor Dairy Salt.
If you make your living out o the butter you sell, then anything that will make the butter better will make more money for you.

## WINDSOR donry SALT

has proved itsquality and superior ity in thousands of dairies and in hundreds of contests,
Successful creamery men have used and are still using Windso Dairy Salt-because it gives them the best results always. Are YOU using it ? 71D

WINDSOR SALT swept the boards at all fairs last season, and is doing the same thing this year.

940 940
Practically every prize for butter and cheese making is being won by those who use WINDsOR SALT.

```
S P 9
```

If you want to win prizes, use
WINDSOR SALT


## Cheese Makers 1

Just Remember This-
Windsor Cheese Salt will make aoney for you, by making better Windsor Cheese Salt improves oth the flavor and the keeping quality.
Windsor Cheese Salt enables you to allt the curd just right, because it dissolves slowly and venlye it in the curd- and

Windeor Cheese Salt is cheep because, being ALL SALT, it goes further.

Make your cheese bring you $75 C$
YINDSOR Wamsalt

## Buy Your Litter Carrier Direct From Our Factory and Save Agent's Commission

Writa us for our prices and proposition before buying.

We can save you $30 \%$ on the price of your outfit, and we stand behind our goods.

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Campare it with other makes and you will decide as hundreds of other have and buy a Dillon No. 2 Litter Carrier and join the list of our satisfied customers.

You can keep your stables and barn-yard-cleaner by using a Litter Carrier and do it easier and cheaper.

It will pay for itself by Spring in the time saved.

It is easy to operate and simple in construction.
R. DILLON \& SON

OUR LINE INGLUDES
Stanchions, Hay Carriers, Forks, Slings, Barn Door Hangers and Latches, Etc.

## How Much?



- OU KNOW how much butter-fat there is in the cream which you sell. Do you know how much plant food there is in the fertilizer which you buy - or do you leave it to the agent and let him send you any kind of fer tilizer he sells, at what seems to be a reason able price?

Are you getting as much phosphoric acid as you need in an available form to perfectly ripen the wheat berry so that it will turn out plump hard A-1 grade?

## HOMESTEAD

## BONE BLACK FERTILIZERS

are known as crop producers and every analysis is guaran-
teed to be as represented. They are easily applis d becanser hey are so finely ground. They can be sown with a grain if you have no drill, and then harrowed in from the wagon

At Dashwood, Optario Lo
f the biggest cropt ever, Leenis Walper says: "I had one se of 'HOMESTEAD' fertilizers." ' farm, following the At Thetford, Ontario, Wilson Bros., say: "'We are well
satisfied that it does not pay to sow wwher and Mr. H. Wilson of the same sow wheat without them;" sow a piece without fertilizer and the difference ich year am fully convinced it does, not pay me to sow wheat
At Arkona, Ontario, Mr. J. A. Gordon says: "I have year I shut it off once across the field and my neighbor
said he could see that strip 8 the first away. said he could see that strip 8 rods away; and it could be seen two ,years afterward to
all right.,"

Every farmer should read our 52 page book on, Fertifree, postage paid. Write us today and tell your frien the same
w want agents for unoccupied territory
The American Agricultural Chemical $\mathrm{C}_{0}$
Michigan Carbon Works, Detroit, Mich.

When Writing Advertisers, Please Mention "The Farmer's Advocate" QUESTIONS AND ANSWERS.
 2nd--Questions should be clearly stated and
plainly writens on one side of the paper only
and must be bocompanied by the full name nad and must be aocompanied by the full name and
andress of the writer.
3rd. In Veterinay
especially must


$\qquad$
Miscellaneous.
TWO GRASSES.
What are the enclosed plants?
they useful or are they noxious?
No. 1 any good for pasture? E. A. B.
Ans- -No. 1 is orchard grass, a very
useful pasture and hay grass when sown
in mixtures with other grasses. $\begin{aligned} & \text { No. } 2 \\ & \text { is couch grass, a noxious weed, which }\end{aligned}$
only most only most thorough cultivation and
smother crops will eradicate

AWNLESS BROME GRASS.
grass, or weed. The plant is almost
like the twitch or couch grass, but as
you will see the head is grass, but a
Some tell me it is is what is cilled tall
$\qquad$
 LONDON, CANADA

Are the Largest Manufacturers o Concrete Machinery in Canada
If you purpose erecting a silo, a dwelling or building of
any class, write us first for illustrated our Concrete Machinery. It will pay you to do it. price list of


The London Adjustable Concrete Block Machine makes every
kind and size of block grade, moderate price.


Standard Gasoline Engline. Every e sold on a strong guar
antee. Ask for our catalogue.

with Concrete Sllos, any size Silo Curbs.

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automatically measures omatically measure
and mixes.

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London Concrete Machinery (o., Ltd.
Dept. B. london, canada

## PERFECTION SEEDAND GRAIN EEPARATORS

 capacity. The fan at the buttom
merely blows out the chaff afier the complete separation of the raisa year. Fuller description in free circular "A." See nearest agent To onto this THE TEMPLIN MFG. CO. F RGUS, ONT:


QUESTIONS AND ANSWERS Miscellaneous

RATS AND WEASELS-CHEAP 1. We are greatly troubled with both rats and weasels, our poultry being
fairly decimated Pairly decimated by them. Should b glad to know of a good plan of clear
ing them.
a moderate you advise a good way, at
1 Aus. -1 . We had personal A. I. W.
with both these perience the rats did not appear to trouble the
poultry. The weasels did There were a pair a did, however stayed around a pair of them, and they
to they were shot. Owin to their boldness shooting is not $\begin{aligned} & \text { im } \\ & \text { practicable }\end{aligned}$ for a good marksman practicalle for a good marksman. We
caught one of theme once in a steel trap,
but the jaw had too scant a hold the animal gat ao scant a hold and ayd. Traps set in
their runways will somat. their runways wot away. Traps set in
The rats were foughes get weasels.
of with traps, poison of different kinds fought with with traps, poison
proprietary two or three
articles, with cement floors proprietary articles, with cement theors,
and with cats. II not exterminated,
they have been so reduced in numbers
that not one that not one has been seen in numbers
Cement fonths combination. ing one can erect. All it needs build-weather-tight roof, and sides that will
hold sawdust, though it is well that the keep, like the roof, be weather tight to Good drainage to carry off the melting
ice water is also very important posts set in the ground and connected for a trame. of course, more elaborate
ice houses may be erected may ander ably cosmomical. An entrance parti-
tioned off from the and are probWe are building an the bin is convenient. designed to keep ice without packing in
sawdust at all, but you asked for an in-
expensive plan.

## STONEHOUSE AYRSHIIRES



Offerings from this herd include some choice two and three-year-old heifers in calf to Hillhouse Free Trader (Imp.), Grand Champion Bull of the Wetern Shows of

Also some choice young hulls sired by Auchenbrain His Em-
See this herd before making selections.
See champor
HECTOR GORDON,
Howick, Quebec

HORSE POWER.
What difference is there between in poundage on the break for testing ? Ans.-The horso-power used by Englis), American, and Canadian engineers, is
that power which will lift 650 pound that power which will lift 650 pounds
foot per second, or 38,000 pounds 1 per minute, or power capable of doing
550 foot-pounds of work WARTS-SERVICE OF BULI-

POULTRY AND MILK QUERIES.

1. Is there any cure for warts on
cows 2. I have a young Holstein bull about a year and a half old that is at the service of the public. How long should so us not to spoil hise heo serves a cow
hoth 3. When should a rooster be put with hens, so as to have hatching egge in May, and how many roosters would be
required with 40 hens ? required with 40 hens ? between a gallon of miluerence in weight and a gallon from another? I have
read in a certain paper about a cow read in a certain paper about a cow
giving 108 lbs, of milk, said to be 13ł gallons. Milk, and this was
How can they sake this out? gallons. How can they
SUBSCRIBER. Ans, -1 . If slim necked, clip them off.
Some have taken them off by repeated use of castor oil. Butter of rentimony,
applied
with a them. Treat when the cow will remove
2. Disy. 2. Questions like this cannot be defl-
nitely answered, as all conditions and not known. Forty to fifty cows during
no the season should be all he should serve,
and not more the under special circumstances day unless might be served in the morning and one 3. Mate them up five or six weeke he Pore chickens are wanted, or about three
weeks before eergs are weeks before eggs are used for hatching
purposes. Three of the heavier breeds
breeds breeds and two of the lighter. her breeds
3. Was it an American paper. gallons differ from ours.

THE FARMER'S ADVOCATE


One man and a boy (to carry milk and assist) nilk 100 cows in two hours with a Sharples Mechanical Milker. Just think of what that means. Think of the relief from the long
hours of awful drudgery twice a day. and unreliable "hired help". Think of the extra profit-at least $\$ 15$ worry per cow each year-you can mink of the extra profit-at least $\$ 15$ more opportunity you have of doubling your herd, thus more than doubling your These are but a few of the many advantages of
The Sharplos Mechanical Milker
The one recognized successful milker on the market today. Used in the world's $\pm \operatorname{man}^{2}$
 "The Patented Teat Cup With the Upward Squeeze"



THE SHARP
HARPLES SEPARATOR CO. WEST CHESTER, PA

## Save Money On Your Cement Silo

$\mathrm{I}^{\mathrm{T}}$ Is miphephis hard work and day I Cxpension poposition op pase


 siderable height and under unfavor-
able conditions - requires skilled labor. It will cost you more in time
and trouble than the rest of the job and trouble than the rest of the job
put together.

11 $\begin{aligned} & \text { Save yourselr this hard work } \\ & \text { and cut down building expenses }\end{aligned}$ and cut down building expenses
by using steel plate con struction or replace the concrete at the top of your silo.
II The steel plate comes to you all can be readily handled, is rolled, punched and marked for quick ascan put it You and your own help
It doesn't need a boilermaker or a contractor to put the plates together. All you need ow is to follow the marks and kno

The Waterous Engine Works Co., Ltd.
brantford, canads.








 silheo in eo beete shape han litaonghy domondeat has ive

II At or priest hidp phates inh grave ropre than the ement and
of work. of work.

- QUESTIONS AND ANSWERS. Miscellaneous

Would you kindly give me the name ous here ? N. A. W. Ans.-The weed is yarrow, or milfoi
(Achillea millefolium). TREATING WHEAT FOR SMUT. Would you give information as to
whether wheat can be treated before sowing so as to avoid rust or smut.
have heard something about a solution of bluestone sprinkled over it to prevent
this, but do not know the proportions. My wheat be grateful to you for any help
mad this year(with smut). and I am told that by sowing this again am likely to infect next year's
crop.
J. S. P. wheat, a pound or pint of commercial
40-per-cent. formaldehyde is mixed with 40 gallons of water. The seed is spread
out on the granary or barn floor, and
thoroughly grial thorou the granary or barn floor, and
and shovelled oped with the solution, moistened. It is then shovelled into a heap and covered closely with canvas ot
tarpaulin for two or three hours. The flour bags and drill should be sterilized. Copper sulphate 2 pounds to 50 gallons,
is sometimes used, the is sometimes used, the grain being im-
mersed for 12 hours in this, and afterwards 5 minutes in milk of lime, 2 lbs.
of

GARDEN AND POULTRY QUERIES

1. Do tomatoes yield better when the
plants are staked up than when thay are
plants are staked up than when they al
laying down?
2. What var
you recommend for being hardiest iul
best vielders
3. What variet
4. When is it most satisfactor transplant them, in spring or fall? Hon
far apart should the rows be far apart in the rows?
5. What care should be given theal in
obtain best obtain best results 6. What age asparagus roots wo ald
you advise setting out? What variety?
6. When should in order to should they be transplanted most successfully, in
spring or fall? How would you preppare
the bed the bed, and how would you plant it
out? chickens, that is to fatten theal fron
quickly as possible for the quickly as possible for the market, with
least expense as possible, what, wild
you feed them, how often, and to whot proportion?
Ans. -1 . Staking has no great H. 1.
Ans.-1. Staking has no great efect
upon the yield. It is practiced to pro vent rot, by keeping the plants up ut
the damp ground, and to allow of the
admittance of sunlight, hastening ripenadmittance of sunlight, hastening ripet
ing.
7. Marlboro, Herbert, and Cuthbert
8. Mar
are good
on the market. Golden Queen is a
$\qquad$
$\qquad$
$\qquad$
$\qquad$ thoroughly cultivated to retain moistu1
and keep down weeds and grass. Thin
out the canes, 倍
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
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$\qquad$

[^2]

You Can Own a Good Business Within a Year THERE are very few businesses investment inside of a the whole BUCKEYE TRACTION DITCHER




Always a Big Demand for Ditching
Hundreds of BUCKEYE owners have
work ahead for months. Farmers want
machine-made ditches, bicause they are wachine-made ditches, bcause they want
better and true t, grade. rmation about what other men have for inThe Buckeye Traction Ditcher Co. Findlay, онio

PROTEIN

It Produces Milk
ON'T use low protein feeds
Theres no profit in them se it only for the prodein pur Chase raise a for the protein value starchy feeds on your own farm Buy Farmer Brand

Cotton Seed Meal
It's cheaper than any other feed, ainc more "protein," the milk conWrite for our free bookler feed. Facts," containing valuable Feed mation and rations Ask for prices
on "Farmer Brand" in carloads

THE BARTLETT CO Dept. F.D., 410 Hammond Bldg. DETROIT, MICH.

| GOSSIP |  |
| :---: | :---: |
| Herbert Theal, breeder of Dorset |  |
| in ordering change of advertisement. |  |
|  |  |
|  |  |
| developed which |  |
| The sheep are in good condition, and |  |
|  |  |
| among them being the three-shear flock- |  |
| header which has proved himself a splen- |  |
|  |  |
| did stock-ketter. Two prizewinning |  |
| of choice ewes, ewe and ram la |  |

# "Foods that Feed the Foods that Feed the World" DAVIES' HIGH-GRADE 

## FERTILIZERS

Mixed Brands for all Crops and soils, Nitrate of Soda, Acid Phosphate, German Potash Salts, Basic Slag, Sulphate o Ammonia, Lime, Agricultural Salt, Bone Meal, Blood Meal, Rock Phosphate, ete

## POULTRY FOODS

Coarse, Medium and Fine Poultry Bone, Blood Meat and Bone Mixture, Beef Scraps, Blood Meal Food, Meat Oyster Shell, Grit, etc. Bone, Charcoal,

## STOCK FOODS

Feeding Tankage, Blood Meal Food, Calf Meal, otc.
Ground Rock Phosphate for a stable absorbent, Rock Salt, etc., etc.

Visit our looth during the Toronto, London and Ottawa Fairs-inspect our samples and crop exhibitcompare them with those of our competitors and judge for yourself which "are the best, bar none"-obtain full information from and judge for yourself which are the best, bar R DEALERS WANTED EVERYWHERE IN ONTARIO
THE WILLIAM DAVIES COMPANY, Limited, Toronto, Ont


GRAND TRUNK RTVILTEAM
Homeseekers' Excursions
July $23 \quad$ Ausust 6 and 20 September 3 and 17
Ia Sarnia or Chicag
WINNIPEG AND RETURN, - $\$ 34.00$
EDMONTON AND RETURN, $\quad \$ 42.00$ ickets good for 60 day
NO CHANGE OF CARS Special train will leave Toronto $10.30^{\circ}$
p.m. on above dates, via Chicago and p.m. on above dates, via Chicago and
St. Paul, carrying through coaches and
P. Pullman Touryist Sleeping Cars. The Grand Trunk Paciflc Rallway Is
the shortestand quickest route between The shortest and quickest route betw
Winnipeg-saskatoon-Edmonton. New Fast Express Service between
Winnipeg, Yorkton, Canora and Re gina. Smooth roadbed, Electric lighted Sleeping Cars, Superb Dining Car
Service. Iv. Wimnipeg,
Ar. Yorkton, Ar. Yorkton,
Ar. Canora,
r. Restma,

|  |  |
| :--- | :--- |
| .00 | pm |

r. Edmonton,

UPPER LAKE SAILING Sallings from Sarnla for Sault Ste. Marle
and port Arthur
3.30
p. ma. . Mondays. and Port Arthur 3.30 p.m.
Wednesaays and Saturdays.
Ask any Grand Trunk Agent for full A. E. DUFF, D. P. A.,
Union Station, Toronto, Ont. $\overline{\text { ADVOCATE ADVERTISEMENTS PAY. }}$

\section*{| GOSSIP. |  |  |  |
| :---: | :---: | :---: | :---: |
| The Morriston |  |  |  |
| Stock |  |  |  |
| Curm, Chas. |  |  |  | Currie, proprietor, Morriston, Ont., is offering at present four choice Shorthorn bull calves which will make show-yard

winners, and some heifer calves winners, and some heifer calves, sired by
Prime Lad, son of the Prime Lad, son of the grand champion
bull, Prime Favorite (imp.). These bull, Prime Favorite (imp.). These
calves are from six to ten months old, and are out of large, heavy-milking dams, choicely bred. Some two-year old heifers, due to calve this fall, and all ages, including young sows in farrow, and choice boars from two months to eight months old, bred from the prize} winning herds of England, are also of fered at reasonab,e prices. Satisfaction
guaranteed.

Stock-JUDGING Dates at toronto In the prize list of the Canadian National Exhibition, the following date
are fixed fon judging live stock: Cattle,-Dairy Classes : Ayrshires and
Holsteins, Trursdoy Holsteins, Thursday, August 29th.
Jerseys Jerseys, Guernseys, and grade cattle,
Friday, August 30th.
Beee Classes.- Shorthorns, Saturday, Beef Classes.
August 11 st.


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is a twinkling-without tools.

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because they (I) last a lifetime ; ( 2 ) cannot bend, break, sag, burn, blow
down, or rot ; (3) positively down, or rot ; ( 3 ) positively keep back breachy cattle; ; (4) can be raised as
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## CHEVELY MODEST Roobt. McEen, Byron, Ont., had the good forturte this spring to secure the

 splendid Southdown ram, Chevely Modest(imp.), a photogravure of which (imp.), a photogravure of which appears
elsewhere in this issue, to head his flock
Chis ram was first This ram was first wherever shown last
year, at the Chicago International, at
all the Northern State all the Northern State Fairs, and was
champion at the winter sheep show at
On
$\qquad$
$\qquad$
$\qquad$ believes him to be one of the best
Southdown rams that ever came to this continent. This ram should nick wel
with the Alloway Lodge flock,
from he is Irom a strain that has never, been used
in that flock before, and has that mascu
line, line, yet typey head, that denotes a
prepotent sire.
Though he is to be
used for service this yen is an prepotent sire. Though he is to be
used for service this year and is not
highly fitted, he will be on exhibition at
the Toronto and London Shows, with a


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our works, Cargill as to the truth of the above statement at our stand at Toronto Exhibition or at is looking for the best-you are a part of everybody.

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| WILLIAM JOY <br> Napanee, |

QUESTIONS AND ANSWERS Miscellaqeous

WATERPROOFING CONCRETE Would you advise putting pitch in
cement to keep down dampness? Ans.-We would not B. B. Ans.-We would not advise putting
pitch in cement to make it waterprog but it might be applied to the outside as a surface coating if desired. Plas-
tering with tering with a rich mortar might be pref-
erable, however. Hydrated lime may the
ddded to ther erable, however. Hydrated lime may be
added to the dry cement mixture in the proportions of 1 of lime to 20 of
ment. A great ment. A great deal can be done by
merely merely using the ordinary materials,
making a very rich mixture, say cement to four of clean gravel, or as near
that as economy will allow. ROCKET.
Find enclosed a plant which I found When cutting a piece of barley, which I
seeded to alfalfa last May seeded to alfalfa last May. This is
new weed entirely to me. new weed entirely to me. Let me know
what it is.
Ans.-The weed is rocket, a hairy nual, somewhat resembling wild musard. Dark purple veins on the lobes
of the corolla of the flower distig 1t. The pods are shorter than those wild mustard, stand upright on the
stock, and have The seed is olive-brown in flat beak. a bitter taste. Pull or cut itor, and mustard fing. As it belongs to the lowstard family, it should never be al-
lowed to mature its seed
CHICORY, NOT RAGWEED Will you kindly tell, me, through "The
Farmer's Advocate,"
if the enclosed plant is ragweed? If not, does rased weed resemble this? E. W. S. Ans.-The enclosed plant is not rag-
weed, but chicory. The two weeds do not resemble eacb other at all. Chicory
is a deep-rooted perennial, with brig.
hin blue to purple flowers. It is a coarse-
growing growing roadside weed, which yields
readily to cultivation. readily to cultivation. Ragweed is a
coarse, branching annual, with mat up leaves, smooth above and downy
und
nenthe neath. Flowers are very small, cup-
shaped, nodding. shaped, nodding, stamens yellow, pistı,
tpurplish. ARSENATE OF LEAD FOR

POTATOES. for potato bugs, as it was read summer by our representative from Guelph did not kill them, but I noticed they
did not lay eggs on the I followed directions on ones sprayed stronger, if anything. Please a little some narticulars as to the strength it
should
abe. Ans.-Arsenate of lead, $3 \frac{1}{3}$ pounds
40 gallons water, bugs. This, it will be noted, is cota
siderably stren siderably stronger than the mix ture used
for spraying trees. for spraying trees. the arsenate and took pains to dissolve putting it into the barrel, you before

Hail Insurance in Austria.
sacted in Austrin only by ance is tranHungarian institutes, 17 in atl. Taking
account they may be divided into organization, societies limited by shares: 10 mutual
institutes $(7$ large mutual institutes ties limited by shares. The societies
limited their business most widely. be extending
staticticn the surance tends to spread more hail in-
anume though, the farmers of the Empire, al-
of we consider a long series of year's, we see that the increases in the
numier of policies and in insured are somewhat inconstant amount ir-
e, erllar. This depend ity of the risk of hail itself; sometimes gh, hailstorm to be reported, and farmre trusting in the continuance arm-
re indisposed to These premiums tend to increase, prob-
ably in consequence of the heavy hail-
storms that have lately been more fre-
,uent and mor

## -

GOSSIP.

HORN HERD.
George Gier \& Son, of Grand Valley,
Ont., report the past year as one of
the best for many years for inquiries

things that win, is not $\frac{a}{}$ sire of of show
side of the the tine, nor to to this side
side

## A Plain Statement of I H C Wagon Value

T HERE is money gaved for ono firmed every tim an H HC wagon is sold. Not because it costs less money to begin with, but tecause of
the length of service it gives, an I H C wa gon is the cheapest we you can buy. A new wagon costs you the parice of so many bushels of wheat or oats, or so many bales of hay. The loger the wayon lasts the
more you get for the original purchase price and the more you get for the original purchase price, and the cheaper you
wagon becomes. That is why it is economy to buy the best wagon - one hat will outlast any ordinary wagon. When you buy an I H C wagon
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## Chatham

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taking manner, by skilled workmen, in factories which have modern appli ances for doing work of the highest standard at the lowest possible cost. All lumber used is air-dried in sheds with concrete floors This toughness and resiliency. All metal parts are made of especially prepared steel, guaranteeing the longest service. Each wagon undergoes four inspections before being shipped so that it reaches the purchaser in first class conload over any road where a wazon should go able to carry any reasonable The 1 H C local agent knows which wagon is best suited to your work, will tell you why, and will sell you that one. U hen you see him have him
show you all the good points of H C warons, and hear what show you all the good points oin He wagons, and near what You can get literature from him, or write the 1 carest branch EAStern canadian branches onal harvester comirany cF amekica



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always lose a percentage of the potatoes which are missed. Let the horses and
the O. K. Canadian dig your potatoes, and save you a long, tiresome job. O. K. Canadian does all the work-digs
all the potatoes. Soon pays for itself fin
the bushels of the bushels of potatoes it saves that the
old method would lose. Write for our catalogue L

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one Fox, and two large-sized aged cows.
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on
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## .

## sa

QUESTIONS AND ANSWERS
Veterinary.
WEAK ANKLES.
Threo-year-old mare that stands in th
stable and does very littlo drivin weak on one hind ankle, and goes slight ly lame after being driven a few miles.
Ans.-This weakness is due to con
genital predisposition, and standing to $\underset{\substack{\text { much } \\ \text { made of of } \\ 2 \\ 2}}{\text { wit exercise. }}$ drams each of a blister and biniodide of mercury, mixed with
ounces vaseline. Clip the hair wit around the joint. Tie so that oll ane can.
not bite the part.
Rub the bister well in oneo daily for two days. on the
third day
apply
sweet oill and turn loose in a box stall or paddock and oit every
day until the hair has grown ugain.
Rey hat
 a stall. Give a large box stall when in
the stable, or dailly light exercise.
V. EXCESSIVE THIRST
When flly was a fow months old she
would drink a pail of water at a time, and has always wanted eecossive quanti-
ties. She is now two years old ites. She is now two years old, and
it atlowed would drink twelve pails of
water in the water in a day. She has grown tairly
well, but is quite thin.
J. W. B. Ans,-Exxessive thirst is usually
companied
by
excessive
secretion urino of light, specicic gravity. This is
a disease known as palyuria, or diabetus insipidus, but as you do, not men-
tion anything abnormal urine, we presume it is not present. this case the thirst appears to be con genital. The administration of 40
grains iodine three times daily will ably check the thirst. The administra
tion tion of the fodine must be ceased at at
soon as it anfects the appetite or thirst soon as it affects the appetite or thirs
As the desire for large quantities water appears to be congenital, it it it
doubtul if its recurrence can be checked

SUPPURATIVE ARTHRITIS, 1. In April, mare went very lame
Her knee swelled and abscesses formed
俍 Her knee swelled and abscesses formed
I lanced on each side, and pus and bod escaped. The, abscosses healed, but atter af time broke again. I poulticed, an
after a time the wounds healed
 largement reducede sone. and the
hard growth on the inside and a swelling all around.
2. $I_{n} 1909$ I saw the joint recommended by w wrat anchylosis way
What is anchylosis? Ans. - Th This was arthritis (inflamma-
tion of the joint), and has resulted of some of the bones of or more bones) inflammatory action and acute lamieness
may be removed by repeated blisteris or fring and and by repented blistering
rian. The later a vetering is not probable that the enlargeter. wil
be entirely removed, or that whe wil
ever again ever again be able to flex the knee wir
mally
 or a joint. It has never been "recom-
mended" in this paper.

## Miscellaneous.

bOOKS ON POULTRY AND What is the title of your best book on
keepink fowls for profity As I nm koing into that business, I would like a relia-
bile book, one that
nulo


 issue many god hullevens and Thich manto
had trree on appplication, wnd which be

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SWEENY,
BONY THO BONY TUMORS, SPAVIN,
OUARTER CRACKS SCRATCHES, REMRASITES
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## THE GOSSIP.

 herd shorthorn On visiting the great scotoh-bred herd of Shorthorn catlle belonging to W. . .Pettit \& Sons, of Freeman, Ont., we found them in the primest of condition, and although, owing to the big demand
the past year has made on the herd, the the past year has made on the herd, the
Messrs. Pettit are not intending to exhibit at Toronto, many of the herd are in a fit that would do them credit in
any company, and many high-class show
animate animals are among the lot. it is wel
known that for many yons known that for many years during the
palmy days of Shorthorn importations W. G. Pettit was one of the most extensive importers in Canada, and being
thoroughly familiar with the breed's his thoroughly familiar with the breed's his
tory and of those particular tribes that day. made this selections for importation from the best obtainable, both in highclass individuality and fashionable line-
breeding. This is the phenomenal success of the herd and the continent-wide popularity they have acquired. The same system of "nothing
but the best"" has always been particularly manitest in the selection of herdheaders. This system of selection and breeding, coupled with a liberal supply in teeding, and proper care and housing, is ress, onsible for the strictly highh-class
character of the herd as it is at present. of of the herd as it is at pres-
ofers at the head of the herd was the Toronto grand champion,
Princess Royal-bred bull, Imp. Favourite. Toyal - bred bull, Imp. Prime massswe, thick-leshed, imported cows and
their Caukhters, was their daughters, was bred the grandly-
feeslict,


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-25 Porter Brosm, Appleby, Ontes Burlington Sta, Phone. MT. VICTORIA STOCK FARM, Hudson Heights, P. Q. We have some very choice young stock for sale, both sexes. Clydesdales and Hackneys T. B. macaulay, Prop. E, WATSON, MEr BLAIRGOWRIE IS OFFERING AT PRESENT:


 famous Royal winner, McCash, and his
great - grandam was the cela mare, Lizzie of Inchparks, who was
Lwice first at the Prize twice first at the Royar, and who was
other prizes, she by the big many
Whizewigh Belted Krizes, she by the big prizewinner
Royally Clydesdale is
roner royally bred, and he Clydesdale is more
lreeeding, having woes credit to hi breeding, having won many prizes,
cluding champis Show, championship at the big Penrith
She is big in size. in condition, on a fig in saultless over the ton, is a great horse.
is acter all over. He year-old is the bay-romarkable two-
Crest, a son of the Hindward pion, Scottish of the H. \& A. S. chambreeding horse, Prince Peter.
up to the good
This colt, a faultless set big size, and standing on at the famous Clyde Show at was first He is one of the best two-year-olds
the year, and will make over horse that will be full of character and
quality. Other two-vear-olds shipment are Bailie Boy, a brown, by
Royal Bailie, and carries in his , rince noted sires as the C. C. champio prize, Top Knot; the Glusgow and H. H. M\&
i. S. first prize, Flashyood and carries, and he has the character, qualt the toppers at the big shows. The
other two-year-olld bay, by the popular is Jewel Keeper,
ing horse, Majestic equally popular Balfern. This by the by the
other tompy other toppy colt, with lots of character
and quality of bottom. Laird $\mathrm{o}^{\prime}$ Ken
is a bay yearling, by Cawdor Laird, dam yearlings of Scotland for of the greath
strown tany times He that wards he twice defented the colt that
lowered his colors thows after atter many tempting offers, Mr. Bramg one of the kreat horses that has been
$\qquad$
$\qquad$
$\qquad$
$\qquad$ a son of the II. \& A. S. chamdulanriy. He is a horse of ideal
$\qquad$
$\qquad$
$\qquad$

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> bout the middle of Septembe
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IT IS GUARANTEED
roy Chemical Co , Binghallybury, Ont., Sept., 2oth. 1911 Gentlemen-So far as this horse that $I$ treated for the Now I have spent a lot of money on a particle now. got any relief before; everything seemed to make her My house is about fifteen rods from the barn, and she up out of my bed lots of times aning. I have got her dead after she had been coughing to find brother begged of me to shoot her and put her out of
misery, but I thought so much of her I could not do


WILTONDALE "WIITONDALE" STOCK FARM Troy Chemical Co., Binghamilon, 17 . 1912.
Dear Sirs: from you did wonders for Remedy I got pony.
Enclosed find check for $\$_{4}$. Please send me two more packages to Towson, Ballipackage away and the other to to keep one
hand. WILTON GREENWAY.
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she would choke. This HEAVE REMEDY does not by Prepaid Fxpress It will cure permanently ANY CASE of Genuine Heaves.
If you have a horse with heaves youl
TROY CHEMICAL CO., 148 VAN HORN ST. TORONTO, ONGGAMTon.


CAVE UP ALL HOPES OF EVER GETTING WELL ${ }^{\text {Mr }}$ Mr Trab E. Herr, 111 Grange St,
 I would go to bed feeling as well as sould
be, and atter steeping for five huus jould make with a severe pain inus
back t, then moving into my side and
and

 toosit until morning with ap iplow row prod
up behind
my back.
With all my prein
and up behind my back, With all my pain
Twould go to work, and after working up
 mee entirly. The same thing would hap-
pen the next night, and every night for
 but nogreat many patent meny gicines. but ail of to availi, I Iave up all hopes of ever geting well, Aftrienp parsuodes of
 first one $I$ felt a change for the better, and after using three boxes I could slee
all night. The pains were gone, and $I$ all nizht. The pains were gone, and $I$ Mailumin's Heart and Nerve Pills are
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For
E. ROSEVFAR, Roseneath, ont.

Aberdeen-Angus Cattle $\begin{gathered}\text { Mature } \\ \text { Best } \\ \text { of } \\ \text { early. } \\ \text { beet: }\end{gathered}$ MANAGER "GRAPE, GRANGE" FARMM
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trainers because ABSORBINE does trainers because ABSORBINE do
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and horse can be worked
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THE, FARMER'S ADVOCATE


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mies of the mies of the human race. use If houselkeepers of Canada will

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persistently, this peril will be tre-
mendously reduced. nendously teduced.


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and Socth topped, imp.and Canadian
bred. choice heff.

r. T. S. Sproule, M. P. Markdale, Ontario, Spruce Lodge Shorthorns and Leicesters Will prioe cheap young bull from 6 to 14 monthe ande. Phome. W. A. Doullas, Tusearora, Ont
Clover Dell Shorthorns


Shorthorns ${ }^{- \text {Nine bulls and a number of }}$ heifer zale at vary ronRobert Nichol \& Sons, Hasersville ent When writing mention Advocate

GOSSIP.
E. A. Rosevear, Rosedale Stock Farm Roseneath, Ont., near Cobourg, writes
In Shorthorns I have Jiltt, In Shorthorns I have Jilts, Roan
Beautys, and the good old Englip Deaus, and the good old English
strain, Lady Eden. All are very dee milkers. Also some good bull calve for sàle, bred right. ` In Dorset sheep
have about twenty as can be got in Canado. sale, as goo

The Dominion Well Supply Company cargill, Ont., in their advertisement in
this issue, call attention engine, claimed to be the thest wind ada, and that they are the only firm that have the sole and exclusive right Look up their exhibit at the Toronto write them for particulars.

Where quality counts in aber A striking example of what a judicious carectul selection of herd-headers, a morlowe by a generous allowance of good care and good feed, can bo accomplished in
bringing a herd
un to the highen bringing a herd up to the highost possit
ble standard of excellence, is geen in
ole ble standard of excellence, is seen in the
Balmedie herd of Aberden-Angus balomedie herd of Aberden-Angus cattil
belonging to T. B. Broodfoot, of Fergus
Ont Ont. It was an exorciso of of rargus
ment by Mr. Broadtoot when bud ment by Mr. Broarfoot when he pur
chased that grand bull now the the chased that grand bull now at the pur- head
of the herd, Proud Elmer 2nd, a ylance over whose show-ring record is ase the bess
description of his superior individual description of his superior individualit,
BBefore coming to this country he wo
Sest
 third at Iowe state Fair, and third ai
Chicago Internntione Chicago International. Last year, is
this country, he was second this country, he was second at Toronto
and first at London, but best the Balmadie hend, he is broving all,
of remarkable worth practically of remarkable worth, practically all
his get being possessed of show -
 and sire of prizewinners, Elm Prark Ring
leader 6 th. aead certainly whose got now in the herc dre cretainly a credit to the breed and
to their great sire, having many to their credit won in the strongest kin the herdany. Many of the females of medie Pride 2nde who was second ath the Winter show at London, and first
is a
a beantifil Guelph.
Out of her is a beautiful show heifer, ten months
oid, got by the present stock but ther heifer that will tock bull. An
beating is a ten-months-olad da dot


 we think is one of the best three-year
olds in the country by Elm Park Ringleader 6th, and out o
the great breeding cow, 1 iolet of Lake
side. siae. Last year she was fourth at To
ronto and seoond at London, and will
surely come to the top this year. Thes are representative of the female. Thest
ine, every one of them good ones, some
of them particularly choice. Balmedie
oren

## Was second at Toronto, sired by Elm ark Ringleader, and out of Elm Park aride

ride. He is bred from prizewinners
both sides, and is

## stock bull, son of a Maytlower dam th

 is out of a keepsake - bredthat co
that was second at Toronto
London. Another is an London. Another is a Maronto an
other a Pride. Parties wanting a a chor
$\qquad$
$\qquad$

## Ideal Green Feed Silos

 When writing mention Advocate
RIVERRSIDE HOLISTMINS
 John W. Richardson, Gatedonis

\section*{SALEM SHORTHORNS <br> | $\begin{array}{l}\text { Headed by Gaintord Marquis, undeteated bull of three countries. See our show herd at the leading } \\ \text { fairs, starting at Winnipeg. J. A. WATT, SALEM. ELORA STA., G. T. and C. P. R. }\end{array}$ |
| :--- |}

##  <br> 


Scotch Shorthorns reprixime

 Burington Jct. Sta., G. T. R. W. G. PETtit \& sons, Freeman, Ont.
1861 Invine-SIde Shorthorns 1912


SHORTHORNS OF BREEDING AND QUALITY Geo. Gier \& Son, Grand Valley, Ont., P.O.\& Sta.

## 

 Don Jersey Herd ${ }^{\text {Balaphorene a. Jrampton, Ont. }}$ D. Duncan, Don, Ont., Duncan Stn., C.N.R
Phoone Long-distance AEincourt.
 arm $1 /$-mile from Burliagton Jct. Station. MITCHELL BROS., Burlington, Ont

AIGUST 29, 1912
THE FARMER'S ADVOCATE
1543
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Write for our Illustrated Booldet at Once
Wo aloo manufactore a wooderfful line of pooltry feneing and farm gation. Agencies almost, everywhere. Agents wated in all unngignod torituris.

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Winnipogr, Man.,
comber
SPRUCEDALE STOCK FARM
Breeders of Holstelns, Hackneys, Yorkshires \& Leicesters








for aikeviren Soveral prizewinerer

Nimakk sulies.-Sows of fhe p pular Minnic and Blo

A. WATSON \& SONS, R. R No. I, St. Thomas, Ont Long distance phone Fingual viars St . Thomas.
Fairview Farms Herd


E. H. DOLLAR,

Noar Prosoott
LAKEVIEW HOLSTEINS! ?


F. E. OSLER,

Bronte, Ontario
SUMMER HILL HOLSTEIN CATTLE and YORKSHIRE HOGS



VERGREEN STOCK FARM Proent offoring: Two young bull anlve


 Ben from a oon of Evergreee March, and all from Record of Merit dame, Write for particulara.
Bell Telephone.
$\begin{aligned} & \text { G. W. CLEMONS, St. George, Ont }\end{aligned}$


.




## A Beautiful Range--Yet Easily Kept Clean

Glance at the "PANDORA" as it stands complete-a handsome range surely, yet easily kept clean. McClary's famed "Duplex' nickelling cannot burn off-it never becomes tarnished. About it there is no superfine "impossible-to-keep-clean" tracery-the nickel adornment is rich-the carving bold.

"PANDORA" surfaces are "burnish ed:" The McClary system of burn ishing is a special process that produces surfaces as smooth as plate glass. "PANDORA" surfaces keep their color indefinitely-they retain our special water-proof dressing. So, you can keep the "PANDORA" bright and clean by simply rubbing a dry cloth over it.

The "PANDORA" is more than a handsome range. It is also a permanent investment because it is built to en-dure-it is the one range that is as strong and compact as it looks. The "PANDORA" cooking surface is made in sections with expansion top the covers and cross-bars fit into them-this allows for expansion and contraction without any possibility of cracking or warping

## "PANDORA" Range

Top sections are reversible-you can place a boiler cross-wise on the "PANDORA" extra heavy and N. B. - You can
N. B.-You can have the story of "PANDORA" Efficiency in detail by

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 official records of his family are contid ered. This grand young are consit informed, is for sale. Breeders may do
well to think it over.

## RVINESIDE SHORTHORNS

For over fifty years the abovenamed herd of Scotch-bred Shorthorn cattle a break, one of the famous Watt herd of Salem, Ont., this one the property of John Watt \& Son, whose success as breeders and exhibitors, as well as im-
porters, for over half a century is to well known to need repeating. Repre senting to-day, as they have done through all these years, the best and
most popular blood lines most popular blood lines of the breed
on the female side of the herd, the sires' side the blood of the most
successful and renowned breeding and show bulls this country has ever known. desirable from which to select breedin females or herd-headers." At the prese time in service as the successor of the great Pride of Scotland (imp.), is th
grandly-fleshed bull, great Cruickshank
grawith Bud strain and sired by the big, thick, and good breeding bull, Blood Royal (imp.), Roya
Hope is one of the improving with age, and if anothees shows as much improvement in his ge the best show bulls, he will be one the aged class next year, and it surely does not require a very great stretch results that should follure the splendic Marr Roan Lady, Mildred use on the daster-bred daughteremary, Matchless of the immortal sires, Royal Sailo (imp.), Brampton Hero, Challenge, Mar(imp.), Jilt Victor (imp.), and Morning Scotland (imp.). From just such breed ing as that, for sale, are a few heifers
and two young buils that and two young buils that will be old
enough for service by spring

A HIGH-CLASS FLOCK OF OXFORD DOWN SHEEP The old-established flock of Oxford
Down sheep from which many of lending Canadian flocks trace their foun-
dation is that nett \& Sons, of Living to Wm. Barabout five miles from Fergus stat Ont. the privilege of the writer to visit this splen al flock annually for many years,
and although great care has exercised in the selection of the best im-
ported flock-headers procurable remember a time when the quality, size,
covering, and breed type coves was of so high type of the crop of so pronounced a uniformity as this year.
The get of the present stock ram, bred prize. T. Holbs, and one of the first-
pen at the Royal, he is certainl proving a great sire, and the Messrs.
Barnett were never in a better position to fill orders for a high quality of flock-
headers than this:fall. offering a particularly nice they are also
ling ewes and shearbeing sired by Cowlie Courtier (imp.)
and another imported thus presenting an
offered oflered in this country for unity seldom of this great dual-purpose breed stock indications point to a big revival of the
sheep industry in Cond sponding increase in prices, evidencine that now is the time to buy. The Messrs. Barnett are also offering for sale
their Holstein stock bull, Sir Faforit Their Holstein stock bull, Sir Faforit Cornelius Posch, and out of Faforit Butter Girl, whose two-year-old record
is 13.14 lbs, and butter-fat test 4.09 with $1 \overline{7}, 619$ lbs. milk, and 821 . dam ater in one year. This bull is for
sale at allmost beef price, as his heifers
 specialty is S.-C. Brown Leghorns, of
which, for sale, are a number of choice

AUGUST 29, 1912
THE FARME:'S ADVOCATE


GOSSIP.
Spring Valley shropshires. $\therefore=\frac{\text { Sitite }}{\text { Prico dor }}$ $\cdots$
 mod numbers hambora, hooep or hog bize, name Sailed troe. r. G. JaMEs, Bowmanville, onit $\int^{F}$
 Our present offering is at arand dot of yearling rams
and ram lambs of both bredid. Also a few yearing ewee and ewe lambs by our im.



Southdown Sheep The martete todiday demands quality
 mot perfert of mutton broedr?
tald defirivery.en for $a$ fow sturdy young rams for ROBT. MCEWEN, Alloway Lodze stock Farm HUNTLYWOOD SOUTHDOWNS A fow choice sheep always on hand. hUNTLYWOOD FARM, Beaconsfleld, P.C. A MUNRO, Manaler.
Oxford Down Sheep, shorthorn cat
 PPRINGBANK OXFORD DOWNS

DORSET SHEEP
 ROSE VALLEY OXFORDS
 -

The Schoolmaster-"Now, how was it
that this great disoovery mado by Columyears anter his deat ${ }^{\text {? }}$.
The Up-to-dated until many Scholar-"Because didn't advertiso.'

Magistrate (to prisoner)-"Did you call
his gentleman an old fool last night?" "'The longer I look more probable it seems to me that

CLEAN HANDS



What Is Soil Fertility? How Does It Interest You?
 Why is it that authorities on better farming agree in oonsidering it one
of the most important questions requiring solution by farmers today? The answer is found in the small average yield of farms in this country as compared with those of other countries where correct fertilizing is prac-
ticed, and in the rapidly decreasing quantity of available new lang is are two things that every farmer can do, both of which will make his farm more productive. One is to practice a proper rotation of crops; the other to
buy and use an buy and use an

## IHC Manure Spreader

Corn King or Cloverleaf
Every farm can be benefited by the uso of an I H C manure spreader. Ie wilr distribute the manure in an even coat, light or heavy, as may be about half the expense and much less than half the work of hand spreading.
An IHC manure spreader is a scientific machine, built to acoomplish definite purpose in the most economical manner, It is constructed according
to a well-thought-out plan, which insures the best work in the feld with the least strain on machine or horses. To take one example of the thoroughness in detail, all 1 H C spreaders are so constructed that a reach is unnecessary lots, backed up to barn doors opening into nanarow hards, or turned food pletely in its own length. Yet the absence of a reach in no way interferes with the strength or field efficioncy of the machines. and information. CANADIAN BRANCH HOUSES,
INTERNATIONAL HARINESTER COMPANY OF AMERICA




## BELMONT <br> Shmopshipes and Southdowns



I have a grand lot of rams and ewes for sale, both breeds. Anyone wanting a
good ram, or a few good bree ling ewes, should write me, or look out for me at the Canadian National Exhibition, Toronto. I shall have a few extra show sheep for
sale. Write early and get the first chice. C. Hodgson, Brantford, Ontario

MAPLE VILLA OXFORD DOWNS AND YORKSHIRES
 J. A. Cepswell, Bond Head P. O., Ontaplo


## Shropshires and Southdowns

I have for sale a good lot of yearling rams and ewes, also a rew good lambs,
of both breeds. Have still left a few fitted Southdown ewes-good ones. Look out for my exhibit at the Canadian National
C. Hodpron, Brantiord, Ont. Shropshires and Cotswolds!
In SHROPSHIIRES I have for sale 35 imp. shearling rams and ewes from some of
England's best flocke, a lot of fine home-bred rams and ewes bred from Minton and lambs. A few of bared fitted for showing. Order early and good lot of Claremont Station, C. P. R., three miles. John Miller, Brougham, Ont.
Pickering Station, S. :
R.,

 THOS. HALL, BRADFORD, ONT., P. O. \& STA.
 Miscellaneous.

HEN DIES-BIRDS DESTRUCTIVE.

1. Would you kindly tell me through your paper what is the matter with this hen? The hen was very lame, and when she walked she would drag her leg lay, and was healthy-loll, but did no lay, and was healthy-looking. I killed her, and when 1 opened her she had a
bunch growing on her back which rosembled a gizzard, but was mattery on the inside. I immediately destroyed 2. Could you also tell me how to keep sparrows and blackbirds from de stroying seed oats and seed timothy?
We have a piece of timothy of three acres; the birds are simply destroying F. P. Ans.-1-This may have been a tumor,
or it may have been tuberculosis. You were wise to destroy her, and it would be advisable to thoroughly disinfect the poultry house in which she was kept.
2. Considerable trouble of this kein has beon reported this year. A liberal use of powder and shot is about th only method we know. MATERIAL FOR SILO-WHEN TO TIMOTHY SOD
FOR CORN.
3. Please give me bill of material r quired to build a cement silo $14 \times 35$, 2. Could the part under ground
erected this fall and the spring, by leaving iron rost in th to make good connections? 3. I have a piece of timothy sod
good condition for corn next year. will get no manure. Would it be wise
to leave it lie till the first of May be fore preparing for crop? $\quad$ R. G. Ans.-1. We shall answer this question by reproducing the bill of material used
or the cement-concrete construction or the cement-concrete construction of with walls tapering in thickness from 11
inches at the bottom to 6 at the top. inches at the bottom to 6 at the top.
This is exclusive of the underground or oundation course $2 \frac{1}{2}$ feet deep, which is
8 inches thick at the bottom, to 15 inches at the ground level. For
the portion above ground, 10 inches, the portion above ground, 10 inches,
tapering to 6 , would be plenty strong enough. We would advise you to make
your silo not less than forty Depth is the most desirable feature in a silo, and in a cement silo it may easily
be secured. If we were altering the be secured. If we were altering the
proportions of our silo, it would be to make it still deeper, thus giving mor capacity for summer, feeding, while kee ing surface of silage down to a min mum. However, if you do build only
thirty-five feet high, estimate seven-
eighths as much eighths as much gravel and cement a
we used. Following is our bill we used. Following is our bill of ma
terial. Full particulars regarding con struction may be found in our issue o
February 1st, 1912. Cenent, 56 barrels.
Gravel, 13 cords.... Stone, 3 loars 8 -inch rods for reintorcing 500. Old wagon tires for reinforcing
door openings and plate for drain.........................
Iron rings with shanks. 3 pairs.
 Tile for drainage, 120 -inch....... $\begin{gathered}1 \\ 1\end{gathered} 50$
Total material for cement work $\$ 12123$ 2. The underground part might be
built now as you suggest, and the rest
W. W GEORGE. Euarantoe satisfaction $\begin{gathered}\text { Grampton. } \mathrm{f} \boldsymbol{n} \text {. }\end{gathered}$

Large English Berkshires-Present offer
 C. J. LaN G, Hampton, Ont. SWINE OF ALL BREEDS FOR BALE. Mampshires, Chester Whites, Poland-Chinaa, and
 John Harvey, Frell ths bur, Que
Hampshire Hogs - We bave the greatost prizeSwine in Canada, bred from the berest otrainpobire the
breod; stock of both sexes not related. Hast the


Grand stock, either sex, constantly for
sale. Price reasonable. MAC CAMPBELL \& SONS NORTHWOOD, ONT. Lange White Yorkshires
 sows in choice lot ot ready for sirvico and
young pig of both nexe suppled not atkin at
reasoablo price, All
breodin preat ported, or from importod H. J. Davis, Woodstock, Ont C. P. R. and G. T. R. Long-distaince phone Hilton Stock Farm Tamworths.

 Registered Tamworths ${ }_{\text {is }}^{- \text {Merton }}$ Lod



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Fourteen-inch W.outh Three Knives Carrier Feed Tables

SIMPLE CONSTRUCTION
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##  <br> Hampshire pigs from the most prolific and best belted familie Stock has been selected from the best show herds of the right kind, write or shoçk the best. It you want the I sell to be a good phone. I guarantee every hog ber of Hampshires, from one to one hundred. <br> J. H. RUTHERFORD, ${ }_{60}^{\operatorname{gox}}$ Caledon East, Ont.



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The Premier Cream Separator

$\qquad$ er

## Construction is simplest

 known.Self-balancing Bowl. Aluminum Discs (rustless) Square Cut Gear.

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sweet, permanent tone, and the enduring qualities of the "' Dominion " in your home. The Dominion upright piano has of the "Dominion" in grand. It has a patent metal arch plate frame that holds the strings influences of the and thus absolutely free from the warping and cracking
We save you $\$ 100$ or more, and give you easy terms, direct
fro.n factory. Write for catalogue and particulars. .

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monials, and keep up no lavish city warerooms. Every dollar goes for honest for catalogue to-day.

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Be sure and see the tamous "Dominion " instruments at Toronto Expos tion, just to left of main entrance to Manufacturers' Building.
${ }^{\text {and }}$ Clydesdales, Sallions and Fillies, Impa, a日2

$\mathbf{W}^{\text {E have arrived home with our } 1912 \text { importation of }}$ Clydesdale Stallions and Fillies. If you want to see
more big size, more Clyde character, better underpinning, better style of tops, better breeding and better action than was ever before landed in Canada, or if you are looking for a winner in either Stallions or Fillies, look us up at
Toronto or Ottawa Exhibitions. Our prices best procurable in the Clydesdale Trade.
SMITH \& RICHARDSON, COLUMBUS P. O., ONT. Myrtle, C. P. R.; Brooklin, G. T. R. and C. N. R. Stations. L. D. 'Phone.

IMPORTANT AUCTION BALE
 R REISTERED JERSEYS, from 6 mos. to 5 yrs . old

Will be sold in the catle ring on the afternoon
of the last day of Simcoe Fair
Slmcoe, Ont., Ootober, 17, 1912 This herd is headed by a grandson of the renowned Golden Fern
Lad, and won all the firsts at five local fairs around Woodstock in particulars, write ot the animals to be offered will appear in later
IRA'NICHOLS, Box 988, Woodstock, Ont.
DORSET SHEEP
This year our flock of Dorset sheep did particularly well, and we have some Tine ewes and ewe lambs for sale at fair
prices. Also some shearling rams and ram lambs Also some shearling rams and ram lambs.
your wants early, or call and see the flock. FORSTER FARM, OAKVILLE, ONTARIO

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Oldest and largest fact ENGINES, FEED GRINDERS, ind the world. Manufacturers of WINDMILL, GASOLINE MATIC BOILERS, ALL KINDS OF WATER SUPPIIFS, PUMP JACKS, TANKS, PNEUPERKINS WINDMILI

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A hearty welcome will be accorded to all and any formation required given on feeding stock

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TRADE TOPIC. Low rates for labor day vi canadian pacific rallway.-on Account of Labor Day, the Canadian
Pacific Reilwey will issue return tickets $\begin{array}{cc}\text { at } \\ \text { harge, } \\ \text { hingle } & \text { 25., }\end{array}$ First-Class Fare (minimum Cianada, Port Arthur and east, nlso to Magara Falls and Buffalo. N. Y., Detroit ing Aug. 30 and 31 , Mept. 1 Good go Return limit, Sept. 4, 19?2.


Wm. Mossip, St. Mary's, Ont. Clydesdale, Shire and Hackney Stallions and Clyde Fillies Present offering 3GOOD GIYDE STALLONS

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 They will each weigh a torse. and are of
the best quality and surre foal oet and



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 DERSFIELD, the centreof the Britsh Woilen Industry. You get the best value and save
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The cloths we offer include IIEAVY SOLID
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Just the cloths for cold weather.
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Raise healthy, thrifty, vigorous calve CALFINE
" The Stockman's Friend (Made in Canada) CALFINE is a Pure, Wholsome, in Canada, and you have no duty to pay.
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does not handle it does not handle it, send us a money
order for $\$ 2.75$, and we will send ico
or libs to any station in Ontario
We pay the freight.
CANADIAN CEREAL \& MILLING CO., LIMITED

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## Winter Fair

December 9 to 13, 1912 O R SES, BEEF CATTLE, DAIRY SEEDS, POULTRYINE
\$17,000.00 IN PRIZES
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##  Tor a trial it has now been in use in Europe fer the past three years with the greatest suc cess. Bvis its ase

 Write us for details-or if visiting the E Ex-
hibition, see our stand is the Machinery Hall. the canadian boving co, 164 Bay Street, TORONTO

AUGUST 29, 1912
Get Busy With a Baler
 Connot sellit asilil and yons amonot thit hay upon which you make your profits markets. This is the The difference between what it costs. to bale hay and margin of profiton your work than anything else you do ond under certain conditions, several tons more a day hay can be made as much a big cash crop to you as
your wheat, corn, or oats. All you need is the right your wheat, corn, or oats. All you need is the
kind of hay press. There is money in owning an

## I H C Hay Press

An I H C pull power press in either one or two-horse
style, or an I H C motor press with a 3, 4, or 6-horse
power I H C engine, will do the work required on any farm cheaper, quicker, and withe less attention than any other hay press so far designed.
It has taken years of field testin
the best that you can buy. They are that now. The
horse power presses bays horse power presses have greater capacity than any other horse press of equal size. They are lighter draft
and easier on the horses. The step-over is the lowest
and narrowest made. They have anadiustable sion, which insures compact bales. They are equipped making each bale neat in appearance I H C C motor presses consist of a bale chamber and an . I H C C engine mounted on substantial trucks. The bale inches amber of the horse press $-14 \times 18$ inches, $16 \times 18$ inches, and $17 \times 22$ inches. No time is lost in setting up
the machine. It can be moved easily from place to place The engine does not barn, and started to work at once. no danger from sparks. When not baling hay there is gine can be detached. Two extra wheels, an axle, and a you have a regular portable I H C engine ready for business a 36 days each, year. You can engine ready for
thresher or corn shredder, thresher or corn shredder, saw wood, shell corn, grind
feed, pump water, generate electricity, feed, pump water, generate electricity, or run a cream one. There is profit in the hay press and conlimited
work in the engine work in the engine.
Hay time is drawing near. Be prepared for it. Drop
in and see an I H Clo in and see an I H C local agent in y y your town, or write
the nearest branch house for a catalogue. CANADIAN BRANCH HOUSES,
International Harvester Company of Americ
 I HC Service Bureau
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Chare toall thestinformation obtainable of
better farming If you have any oworthy naest on





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Are you anxious to save time and money on the work you are
doing on your farm at present, and to get larger crops from your farm or orchard? If so, let us send you, FREE OF CHARGE, our pamphlets on the use of

## Stumping Powders

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Removing Stumps and Boulders Digging Wells and Ditches Planting and Cultivating Orčhards Breaking Hard Pan, Shale or Clay Subsoils Etc., etc., etc.
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 Steamers leave Port McNlcoll Mondays,Tuesdays. Wednesdays, Thursdays Tuesdays. Wednesdays, Thursdays
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[^0]:    Good breeding heifers are what is needed

[^1]:    First and champion in class, Highland Show, 1912

[^2]:    When Writing Advertisers, Piease Nention

