## PAGES

MISSING


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## Massey-Hapris Manure Spreader

With it you can spread manure much more quickly and more evenly than by hand or with any other machine. It cannot clog-spreads evenly from start to finish-thus each plant gets its share of nourishment.
Vou can regulate the amount spread stop, start or reverse without stopping the team.

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Apron runs on rollers-works easily

The Apron has positive automatic return. it is the only "tight box" spreader handy for drawing in roots, etc. It has wide-tire wheels - won't sink down in soft ground.
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The front axle is short-tongue does not whip on rough ground. Frame is strongly trussed


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## The New and the Old <br> Find It's pretly hard to say which is better When we first put out the NEW FROST LOCK, we conndered it an improvement over any other lock in the world. pll un tell us hey are orrehire cows . rying to decide which is better-Holstein <br> ar aysina <br> Frost Locks on Frost Wire Fences <br> nake the perfect comblination for strength. <br> trost locrs lock the wires so they can't nag or hang. Do not bend <br> knot, crimp or kink them-the only device that honestly LoCKS two hard wires without injury to either. <br> wres Hike to jury to either. <br> about Frost Fence, and some others worth knowing ing. It telis the fact <br>  <br> WOST WIRE FENCE CO. HAmitom, <br> $\qquad$

02

If you have a WIFE, take care of HER!
If you HOUSE $\left.\begin{gathered}\text { Take care } \\ \text { of }\end{gathered} \right\rvert\, T$

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Vol. XLI

## EDITORIAL

## The Need of Underdraining.

 draining, in many places, more apparent than the spring, when farmers are waiting for the land worked to advantage in preparation for seeding.In riding through the country In riding through the country at this season, one
is impressed with a sense of this need water lying on some portion this need by seeing major portions are dry and ready for cultivation the consequence being that seeding operations must be delayed a week or more while the wet while if those places were tiledrain of evaporation be fit for work as soon as the read, they would It is conceded that the carly-sown the field clover, as a rule, ensures the surest catch and the heaviest yield, and early sowing is often im practicable because of a few wet places in the field. The harvesting, too, is often delayed by the necessity of waiting for the ripening of the crop in these low places, if, in the meantime, it that on the hipher portions issive rains, when best condition for reans ready and in the and yellow leaves of the grain spindly stalks places are often noticeable as signals of distress, Wing to the wet feet of the crop, and the end is ile-draining, these portions would certainly be the most fruitful in the field. As a matter of fact, few farmers are wealthy enough to be able to afford to neglect draining such portions of their lands, and yet such neglect is a common
occurrence. Those who have adopted tile-drainccurrence. Those who have adopted tile-drain-
ing have almost invariably found the results so ing have almost invariably found the results so
satisfactory and profitable that the expense has and
been repaid by the increased yield of the first two three crops, and in some instances in a single season. It may be too late, in many cases, to to make a note of the need of the remedy and re Solve to apply it at the first favorable oppor

Sow Clover About the Buildings. fields, may be used to excellent advantage the scattering a few handfuls here and there about the buildings, especially in the backyard, and along the lanes and roadsides. If clover were
not such a common farm crop, it would be used largely in a decorative way. No other plant Wakes such an effective flower-bed as a mass of perfume distilled by nature or man excels the thowering plants, it is at no bom. Unlike many unsightly. While it holds the ground, it subdues noxious weeds, and, dying, leaves the soil in bet1.r condition to grow whatever may succeed it.
II be considered too common, or not altogether ny rate, a place in the back yard. A few pounds over seed cost little, and are not worth holding the another year. Sow it in the bare spots,
the places where the weeds grow rampant theast it everywhere there is a chance for a to sprout. If a fev plants come up, they
in all probability, seed more ground next And a few plants are better worth while hrift is a first essential in farming. Without enterprise leads to failure; with thrift, it
leads to success.

LONDON, ONTARIO, APRIL 26, 1906
No. 709

Make Country Life Better Worth Living there is no doubt we are making rapid progress en mothers visionary, are to-day cerided ten years ago as night since, driving throumghny \&dopted. A fort of Western Ontario, we found the to wheat had been reduced almost to nil. Instead spring grain, corn for ensilage and clover are grown extensively in a mfore or less regular rotation; large numbers of dairy cows and other used to kept, and bigger returns secured than grain farming case from the system of hay and land is worked We noticed few cross fences. The teams were in evidence rounds, and three-horse common, and the houses Sere protial barns were of trees, and not a few of them surrod by groves nice lawns, shrubs and flower-beds. Comfort with even luxury, were enjoyed by the people.
It is true the pupulation here, as elsewhere, had
been somewhat this will right itself by wastern migration, but those who have remained are, beyond Munwhile, hore prosperous, and geare, beyond question any of their precursors. Progress is reffected in heir condition.
safe to prognosticate decade in store? It is unpreserve a reputation for judgment, one would not hesitate to affirm a belief that the progress of the last fifteen years will be eclipsed by that of the next ten. This will include the whole field of agricultural effiort. Great strides will be made in cheapening and increasing the production and improving the quality of farm produce is it next few decades mill marked advance of the country a better place to live in making the will be made homes-homes in the truung places the word. The exterior will he embellished of trees, vines, shrubs, flowers and grass, and an painted building will be the exception. An unkempt back yard will be as much frowned upon as an untidy front yard is now. Inside, the best periodicals will be found upon the tables, standard books in the library, the piano and camera wrill be found in almost every home, the type essential, they essential, as they are in a modern office. The
telephone will be universal . electric traverse the country in a ; electric railways will standard in rural districts will rival the social culture and versatility. Much will be done in to make farm labor more easy and pleasant Electricity will, in all probability, be harnessed to thresh and grind our crops and light our buildings, if not to plow the fields. Farming ${ }^{\text {will }}$ be a nicer job than ever before.
this happame time, it is well to point out that thrifty, energetic its own sake recently by a farmer who had erected a new to us a few years ago, that he built it in order to marn enough money to build a house. He will have the house, too, judging by some facts he told us. Last
vear, from a two-hundred-acre farm his actory checks totalled $\$ 1,400$, besides which, he sold this spring eight yearlings at twenty dollars apiece, and raised also a colt or two , and sold a way of hettering ore's condith is a rational way of bettering one's condition. All the facili-
ties above described will come. in luxuries first, but from the increased prosperity hat results from judicious prosecution of enterother ambition is an attempt to put the cart Any fore the horse.

Last, but not least, one of the greatest advances will be in lightening the work of the armer's wife. We cannot dwell here uppn deconvenience will be stecmed when no feasible larmhouse, and the day is approaching if it not soon upon us, when a favorite bean of the city girl will be a thrifty, progressive Canadian young farmer.
Let everyone do something in the great work beautifying the country roads and farmsteals, scape subduing covering up blotches on the landing and weeds, tearing down fences, gradvery man, woman, boy and planting trees, If motto, "Nature idealized," what a transiorma ion would be made in the face of the country. We tive only once, and we take no wealth with are lived amid beautiful, whot us see that our lives and what a He who makes nature to smile make them so before, is a public benefactor of the thed Co-operation is necessary in this great tos co-operation waits only for example. That each of us.

## Don't Work the Hillsides

Seed down that steep, clay hillside this year ing, or with a mixture of white clover and soilgrasses for permanent pasture. Prof and other permanent pasture mixture has often in this paper, and a trial is recommended given may also give the following, which has given cellent satisfaction on forty acres of hilly land on a farm in Ontario Co., Ont.: Twelve pounds lucerne, 6 pounds timothy, 3 pounds white clover grass, per acre. grass, and 10 pounds blue mixture was sown with a ago this spring this The growth was rank a nurse crop of barley. no cattle were allowed on it till of lucerne, but of the following May. It has the latter part tinually since, being top-dressed pastured conmanure. It is true the lucerne has now with out, except on the elay Enolls; but here it is very persistent, and as thick and more growthy than the first year it was sown. The seeding, genèralmore proved a great success, and these hills aro similar land and vastly more profitable than old-fashioned on neighboring farms, tilled in the gullies, the good and gradually washing into since carried away.
There is no money in working these hillsid They take the bigger share of the manure, as well as an extra amount of very dificult cultivaeque Even then the crop is often inferior, and o get a goo rotation is disarranged by failure he hillsides catch of clover. In the early day rom frost and earliest to permit seeding. But it is the have long since been changed. Now ed in rotation, level land which should be cultivator seeded to , and the hillsides clothed in forest except the harvesting. The witails no work be in permanent pasture, may do even the harvesting. How mave stock caders have ever calculated the profit in cultive ing hillsides.

The idea of exempting farm woodlands from taxation is gaining ground. It is not an extreme and badly-needed mure, but a moderaite, feasible, the farm port of public-spirited As such it deserves the sup-

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## Give the Apple Orchard a Chance.

If there is one department of the Canadian farm that has been neglected more generally than another it is the orchard. The common practice
in its care is an excellent example how it should not be done. A great many orchards are planted as though they had been intended for shelter belts. Thirty-five to forty feet for Southern On and twenty-five feet in the extreme North Ontario, the proper distance of the trees apart. Plenty the proper distance of the trees apart. Plenty
of cases are to be seen where they are two to four times this thick. In such cases a radical thinning is the first thing to do. The owner may think it a pity to destroy the trees which have been so long growing, but if it is the means of getting more and better fruit, what folly to leave the surplus trees to cumber the ground !
The second essential is more and better prun-
ng. The subject of pruning has been very fully ing. The subject of pruning has been very fully covered in "The Farmer's Advocate" by Linus Woolverton, and our readers will do well to prethink that a fair amount of information had been disseminated regarding this important art, yet the other day we noticed a boy butchering trees by cutting out every small limb within fifteen feet of the ground, leaving a little brush at the top. There is need for more object lessons in pruning
Spraying is a neglected operation. There is, perhaps, some excuse on this score, for the task
is an unpleasant one, comes at a busy time, and requires special apparatus and some knowledge to do it right. Still, as with most things else, is not such a formidable job when one gets at it. The spray pump is less expensive than many other farm implements, and the expense for chemicals is small, compared to the werease in quantity and
value of the crop. In value of the crop.
profitable apple crop. Every urchard should be sprayed at least three times-once before blossom-
ing with Bordeaux mixture, and twice after with Bordeaux and Paris green. A fourth or even fifth
spraying may be required. The Bordeaux is a spraying may be required. The Bordeaux is a
preventive of fungous diseases. As such, it must preventive of fungous diseases. As such, it mus, branches, leaves and fruit must be kept covered with it ; otherwise, the spores of the fungus may fall upon an uncoated portion and infect the fruit or leaf. Particularly is this liable to happen during damp, muggy weather. Imperfect spray be sure we must be thorough. Unfortunately spraying is not a reliable safeguard against the codling moth, but even here it is a help, and the striking instances that have been frequently given in this paper should convince everyone that spray ing to prevent scab is an unmistakable success. always a cause, such as poor materials, a poor pump, improper preparation of the spraying mix ture, imperfect application, failure to spray at the right time, or some other reason which, while puzzling to the novice, is plain as day to the experienced orchardist. The sensible course, then, is not to discard spraying because of a failure or the , but to set to work to find out and remedy the defects. Until one has seen what his trees can do, thus protected from insects and fungi, he property. The greatest benefit is the salability of the crop, due partly to the increased vaigor the trees, as the result of the present and previous seasons' protection of the leaves from fungus, and partly to the freedom of the fruit from blemishes t is unlikely there will ever be a time when fruit from well-sprayed orchards will not sell at a fair price, if enterprise is exercised in marketing, There is big money in spraying.
To a professional orchardist, the cultivation given the average farm orchard is wretched. Plowed, perhaps, in May, left lying fallow for a time in the sun, and then worked up and planted to buckwheat or hoed crop, it is in an excellent
condition to lose moisture right along. Frecondition to lose moisture right along. F
quently it is subjected to the usual system field cropping. Until we can get rid of the persistent idea that an orchard is hardly worth the ground it occupies, there is little hope for the apple crop. There are two well-recognized systems of orchard culture. One is the sod
mulch, leaving the grass to grow, to be cut and spread under the trees as a mulch. The other, and most widely favored way, is to cultivate lightly but frequently all through the early summer, keeping the ground loose and friable, as
for a root crop. This conserves moisture mits aeration, and results in setting free a gener ous share of plant food for the exclusive use of the trees. Along in July a cover crop is sown of vetches or crimson clover, to take up some of ripening of the new growth tending thus to the nitrogen from the atmosphere, and to serve as a winter protection against frost. This is plowed down the next spring, and the cultivation repeated. Under such a system, the application of light
dressings of ashes and bone soil fertility, induce vigorous meal will build up othen requisites are attended to, heavy and, if the first-class fruit.
We sometimes hear that the orchard is not ing after unless one is preparcely is worth lookthe prevailing practice ; but no field on the farm will respond so generously to intelligent care. Down in the Annapolis Valley, in Nova Scotia,
where up-to-date fruit-growing methods are where up-to-date fruit-growing methods are practiced, they value their bearing orchard at a thousand dollars an acre. Recently we were shown the statement-equalled by others with
which we are acquainted-of a Valley orchardist who, in an average of seven years, after recouping cleared a sum equal to an annual interest had per cent. on a valuation of $\$ 1,000$ an In Ontario we can hardly do so well as th we have not, perhaps, quite so good an country, and our growers have not, in the been accustomed to realize nearly so good p But the co-operative associations are prac
better methods of picking, grading, packing selling, thus realizing most encouraging can be made the most profitable asse

## A Broadening Public Opinion.

 We are leaving behind the chronic pessimism the past, and weile the chronic pessimism evils of which we, as a class, are the victims, are divesting ourselves of the prejudice which former y weakened agricultural public opinion, and are early becoming less prone to heed the rantings tural opinion is informed, broadened and tempered, will it command respect and wield influence in the councils of the nation
## HORSES.

## Moral of the Market Report.

The fortieth annual report, 1905, of the Union ing actual average of horse prices in the years 1902 to
 valuation of horses, 1905, \$18,133,125.

The above figures teach that the man who would make money must breed for a purpose. A glance at the
table shows that the highest price, $\$ 243$, was abtained for the matched carriage horse , the $\$ 243$, was obtained the Hackney sire. The next highest, $\$ 186$, was reat on the drafter, a horse that farmers can raise to better advantage than any other. The third position, in point of value, is occupied by the saddler, a horse that most of $\$ 156$ was paid for the drivers which will average tinue to hold a place in country as well as town. The lowest price of all is for the Southern chunks, and the next lowest average is for that general utility grade,
classified general use. classified general use. The most eloquent lesson is that
the American farmer should make freer use of Clydesdale and other draft sires on good, strong-framed mares, and then feed the colts better, so as to put on them that
extra hundred or two hundred extra hundred or two hundred pounds of weight which
draws the extra twenty-five or fifty dollarg draws the extra twenty-five or fifty dollars from the
buyer's pocket. There is money in raising a good draft horse. Che Company's report states that "The stability
The of the horse industry was never more signally empha-
sized than in the broader devend sized than in the broader demand that has featured the
trade from all quarters during the current (1905) saa-

## The Claims of the Shire.

ussing the reasons why Shires England have been discan be done to create a market for shichic, and what the water. The breeders of Shires, being Englishmen and that think the trouble is all with the other fellow broved upon at the present time at least. have not been buying so extensively leost. Americans
Percherons, and Canadians as dales than Shires, but this have bought more more Clydes-
Shire as a breed Shire as a breed is not this does not prove that the
Throughout the as the Throughout the Englishmen's discussion of the ques
tion, there has prevailed a type they are now producing, and we think they the the
The Shire to-day The Shire to-day is the largest and most powerfully
built of horses. He is andso built of horses. He is also one of the most sound fi
body and bone, and for these characteristics he should
be invaluable for and deeper for use where creater size, bolder spirit legs have been are required. Excessive, size and hairy America, but we are assured objections to the Shire in With line breeding the Shire will eventually be as cleat and fine in feather as the Clyde, as indeed some are
now. Ho does not say there will he
size or sive or shortening of rib with will be any reduction in
but if there is a protaling of feather but if there is a probablity of this being the cese, we
should be sorry to see line breeding carried very far demand fuat the Finglish lireeders want is an immediate demand for their hurses. To create and stimulate this,
we could sumest
numb hing better than for them to make a display of draft geldings at Provincial and to make
Dininion finirs in Canada. and at State fairs and the Interfiltional show withicum, At the latter show there is
 an thates, ?hat the themerereding public want to see
14. ... with men. the day has

Hints from a Horseman.

Draft Horses: Origin and Characteristics one time a war horse capable of carrying a heavy man


Marcellus 11110 ).
 general type he resembles the Scotch draft horse of cen- ally conceded to have been Shire mares. The late Notwithstanding the boasted purity of breeding the Lrincence of Wales, claimed that the Clydesdale and the moderne
that the breed is a composite one, and that the first
Shaft were one and the same breed, and that the best recorded element in its composition was the use of He made an effort to found a distinct breed of Scotch Flemish stallions on the native mares of Lanarkshire draft horses, by an amalgamation of the modern Clydes-
about the latter part of the seventeenth and carly years
dale and the modern Shire. He succeeded in producing about the latter part of the seventeenth and early years dale and the inodern Shire. He succeeded in producing
of the eighteenth ceaturies. There are reasons for be- some excellent animals by Prince of Wales out of good of the eighteenth ceaturies. There are reasons for be-
lieving excellent animals by Prince of Wales out of good
lient Flemish stallions had been imported into Scotland long before the dates mentioned; and records when he was apparently about to establish, by prac-


Cherry Startle.
Champion Clydusdale mare Toronto and International Fxhibition, "hicago, 1901. of foreign blood into the lowed, or at least those
with foreign blood close as a horse-breeding country durings the early Stuart intelligent breeding, breeding with the idea of improving and Ceigns. During the reign of James I.., in the 15 th cen- the quality of the breed, and at the same time not to be sold for exportation, but during the Regency of the producad the "modern Clydesdale," than whom no betEarl of Moray, in 1567 , an Act was passed prohibiting ter draft horse lexists, and many claim none so sood.
exportation. Following this date efforts were apparentexportation. Following this date efforts were apparent-
ly made to improve the breed, but, as the methods CHARACTERISTICS of THE CLyDESDALE Stal the reigning monarch, little headway was made. At Head-Ear, of medium size and pointed; cranium,
ntcely rounded; forehead, broad and flat
prominent and mild:
nostrils, large, firm and flexible : straight in front; A Horsewoman's View of Horse-training
mouth, of medium depth ; lips, compact rather sma
jaw wide well developed; space between branches of low strongly masculine. The general appearance of head
the Nock-Of medium length, deep and full where it joins strong, but not so heavy as to turn to either side. the Whole neck to be nowerfully to muscled and strongly mas
culine in appearen hair of appearance, and suarmounted by a full mane o a graceful manner, well carried and not to the head in the throat.
Withers and Back-Withers in line with the posterio ceases and the withers commence, tolerably high, rathe broad and well muscled; back straight high, rather
short ; loins, broad, strong, and wather Croup-Rather long, well museld dock coming out rather well up, and well clotheopings traight and not too coarse hair, and well carried Chest-Ribs long and well sprung, with well-murked broad and well muscled ; deep through girth; breast the fore limbs the appearance of soing aroad as to give sides rather then underneath the body
Shoulder-Moderately oblique from above downwards
and forwards, and heavily muscled ; an upri tht showder
Forearm-Large and strong ; rather short and well wards the knee.
Knee Straight: wide from side to side : large and strong in all direc
tions ; not inclined to kneesprung to Foot-Cannon bone rather short, broad and tendons well developed, and not beefiness ; ligament below the knee; skin lying close to toone much tied in feathered with a moderote to fetlock pad to be well hair, especially in the region of the fetlock (wayt, silky or coarse hair very objectionable). Fetlock (wavy, woolly and strong ; pasterns of medium length, and warge marked obliquity (short, upright pasterns cannot be bell
tolerated ; at the same time it too much length and obliquity). Foot-Of medium size, rather round, with well-de
veloped coronet, the wall strong sole not flat, frog, wall strong and moderately deep;
broad and stronged and strong: absence of any indication of hardening There must be an the lateral cartilages. He must not turn the toe
either inwards or either inwards or outwards when
straight, with feet firmly planted
set too close. The whole limb from ton far apart nor be perpendicular. Tot deviating from knee to foot for stould
war wards or out-
wards from above downwards. Feet must ber
$\qquad$
Haunch or Upper Thigh-Strong and heavily mus-Stife-Strong, compact and well muscled strong. Sence of puminess.
(Gaskin or Lower Thigh-Muscles large and strone and extending well down the limb ; bone, large : ham
string. prominent and Hock-Large, strong and well developed in all directions, angular, an absence of coarseness, or puffiness
point well developed, and posterior border stries must stand with hocks well toget
Hock to Foot-Same

```
knee to foot; must not have a tied-in emperstics as from
```

Foot-Smaller, narrower and more
than fore foot, otherwise the same, but should stand
somewhat
somewhat like a soldier at attention, but should stand
ly turned inwards and toes outwards
reasonable modifications, reasonable white gran, gray, with
objectionable.
Temperament-EFergetic, docile ; not nervouls.
movements firm, smart and elastic: must be a moctived
walker, all joints moving freely; knees and postan
hocks and pasterns well flexed, showing the poles "if the
feet plainly ; must not roll or paddle with the fore
feet plainly; must not roll or paddle with the forre
feet, but lift them smartly from the ground, fetch them
forward in a straight line and plant them firnly : must
not go wide with hocks or hind feet, nor yot cluss
enourb with feet
ments to be carried o
the better, so long as
reed differ from those of a mare or geldine of this unkinit
sence of the masculine appearance noticeable in the
this appearance, which is more easily recognized than
the crest so highly developed

man man
Hibutes the following interesting article
Horse Show Monthly. Torse Show Monthly brought into more or less of two before foaling, and are treated as and lost in the mazes of an for the use of man is abled, and only fit for a brood mare, let her have member the beautiful tribute to him in the book ditions of thincess before foaling disarranges the of Job, and the sculptured images of horses found before foaling is quite unnecossary ang, and a long in the ruins of the cities of the desert, we can but believe that he has been the servant of man' but This has man was made master of all created things This has been called the " horseless age," and, while the horse doubtless has powerful rivals in genuity supersede the beautiful, well-brod thing will ever animal that responds as nothing perfectly-trained will and pleasure of as nothing else can to the From my earliest childhood
$\qquad$ mere child broke and rode colts and when but a par parenthesis, always " sidewise." farm-and as I have never had any trouble in subduing, or as I prefer to say, educating a horse, and I
have handled some vicious animalc to show them that 1 am their friend, I thus to
ing their love and confidence, and I never let
them think for one inoment that I fear thom Wery person is born with a certain amem. magnetism, which the force of will develops. That
there is such a there is such a phe force of will develops. That
horses will deny po successful trainer horses will deny, and the more magnetic the rider
or driver, the easior the horse, the I neasier for him or her to control horse to answer to the pull on the but train my
same time talking to the same time talking to him in kindly, encouraging woman having good hands and flexible horsethough thising qualification is and hard texible "rists,
good rider mever pults at her horse's A

 the part hands play in the mamageoment of horses hancribed about the man or woman with to beo
cand whel whle with care and when

## can, to a certain extont, be acquired. Areeding Draft Horses.

$\qquad$
 One of the most pitiful sight is that herse:
ignorant harbarian on a
be will wate Genorant harbarian on a gaited horse. Perhaps
he will urge him finto a single-foot wit
hanging loosic
 then the rider a skip, hop and fump into a lopes out at the local district actow might hie pulled


 to encourage hime talking in a low. sont hing tone hroady have his contidence. side It wass with a tome was found in the
so trong foal at the forward tows hack his ears to listen to medence then
frighter


 I am now training a colt that was rabised town. so found her difflcult that in was raised in
When I first began to drive her oul the fiot
were white
 turn back: as she would turn. I would pall
the opposite rein, all the while talking to her
a quiet a quiet, gentle roice, and urging har on on her it
she matle up her mind that it was nothing that
would hurt her Would hurt her. and passed on. Sothing that
sensible but merous and high-strung. Sue is wery
had whipped hor field she would have the next time she saw a colton ing her



 That is the rasem I luarer ailaw.


during all the rest of the season
Keeping this in view，a stallion wo
not to leave his box till the end o

## The Hackney in England and Elsewhere

## Many，are apt to confuse the two words

 fuction of the word haquenee，continuing，ull
interupted to the end of the e 13 th century，which
time Robert de brunne show in his writus．
 tise the word hackneve．Piers Plowman
too，who wrote a few years later，namely，atout
1350 ，and Chaucer，also，each made use ，，fi thi 1350 ，and Chaucer，also，each made use＇Af the
Word ．＇hackeney，＇and each and all of these oll Wrord hackeney，and each and all of these
writerse invariably used the word as distinctive
a horse for riding，as separated drom the a horse for riding，as separated from the war
horse and the theneral－utility slave．The Norman
lorench word an French word，＂haquenee，＂＂too，before referred to
also implies a horse for the purpose of riding．I
 Rural Repository
ished about 1803
again clearly distinguished and distinguishable Hack＂is there shown to signify a horse ap
＂ropriated to any and every kind of purnosic and upon which no great estimation of value is slaced yo mach for＂Hack．＂
tefines＂Hackney＂thus

 he must be able to go five－and－twenty or thirty Here，in England，the original purpose of the
Hackney was unguestionably for saddle work Instanced by the numerous records of our fore
athers，completing lengthy journeys over bad oadis by that means of progression，and it will，
think，be admitted by all，that in those days if this country，and recognized as one of the necessaries of life，upon which men spent a good
deal of their time when going upon business jour－ There is no doubt whatever that Hackneys Yenerally，and Hackney breeders that Hackneys
have been subjectec，of late years，to the some he pepularity of triticism．It is the fact that
the Hackney，outside of his own momediate breeding districts，hos．been of a varied
quantity，but it is a popularity that，when once Tuantity，but it is a popularity that，when once
thortughty and genuinely established，is not likely cars ago to members of the hunting fraternity hat an exhibition would be held in London，
whereat some $500 \begin{aligned} & \text { wackney stallions，mares，}\end{aligned}$ eldings and fillies would be shown，and which 000 people，and maintain an unflagging popu－ then receved four successive days，it would have
，uth derision． 1 But it is none the less orters of the Hackney，as distinguished from sup－ anescent and twenty－minutes commodity，have
o－llay the satisfaction of knowing that they and heir representatives have gradually lived down a
reat deal of former public preiudice vithstanding anything detratcors may，adance to
he contrary，from being received some sixteen or

 horse to－day，in no matter what department he
inay be known，is the popular attraction at the
 Mrent type of animal to that of twenty or thirty
Cars ago，and is jugded literally from a difrent
candpoint．The competitors under this classifi－ ation in former cays were legion，and ompsised
it somis and conditions，whist those adjudicat－ Mg，save in special dist ricts，seldom moved from
he center of the exhibition ring，and were ron－
（nt to give in their awards solely from the gyra－ onss they beheld
The Hackney of to－day is bred upon a different
 res．instead of having the sole qualification of
，eing Squires of the count，or possessing handles
on thiur names I harness could pound a axay，palling a qig along，
＂ith high action in front，or at the end of a line，


$\qquad$

The Same Old Story．

## Action in Draft Horses．

importance in cart horses．Buyers of heavy－drait horses for town work lay a great deal of stress
on it，and require that they should be good walk－ rs，bad walking action being a serious fault in Cheir eyes，and considerably depreciating the
value．In the show－ring，also，the way in which a drait horse moves counts for much．A bad passable class of dratters．Chance at a show in a
make things go to
good walking action，such as is make up good walking action，such as is required sary that the animal should be a fast walker， round well，and travelling at a satisfactory rate of speed．A sufficiently long stride is the founda－ springy，the horse moving with plenty of spring， round．When a draft horse is a clumsy mover， planking down its feet in ponderous fashion，like
dead weights，the feet and legs are subjected to a great amount of concussion，being severely
jarred each time they come down on hard ground， and they wear out comparatively quickly as a
consequence．The feet and legs of cart horses Which have clumsy or stumpy action never wear
well upon the hard road or on the streets，and such poor walking action is often the cause of
unsoundness of foot．The action requires to be spring or elastic if the limbs of a heavy－draft
horse are to wear well and last their full time． pringiness of aotion is，in a large measure，de and pasterns are placed．In order that the ac－ tion may have plenty of spring about it，it is
necessary that these parts should be sufficiently necessary that these parts should be sufficiently
oblique．When the shoulders and the pasterns－ be no spring，and the action is bound to be be clumsy and heavy．The Clydesdale breed affords a striking example of the fact that sloping pas－
terns and shoulders in heavy－draft horses are con－ ducive to good and light walking action．Clydes－ dale horses have what for cart horses are re－ they are noted for their good action，and one is due，in a large measure，to the other．A further requirement of good action in cart horses is that to clear the ground well．In the show－ ring，especially，judges and breeders of Shires lay considerable stress upon this point．Any excessive lifting of the feet－though it certainly
looks well，and makes the action appear moro energetic－－is not，however，desirable from a prac－ tical point of view，because it involves a useless expenditure of energy，and is needlessly tiring． All that is required for practical purposes is that
the feet should be lifted sufficiently to clear the ground well，and thus to ensure safe travelling over rough ground．When one is standing behing the horse and watching it walk away，the soles
of the feet should be visible at each stride this is not the case，the animal does not pick up its feet as well as it ought to do．The knees
and hocks must be sufficiently flexed，and the feet should be swung forward in vigorous fashion，and is an objectionable fault．A A still more objection able fault is it when the hocks and hind feet are and after the foot has been placed on the a stride， This defect in the hind action is often a result weakness of the hock，and it，in all cases，entails
extra wear of the hind limbs extra wear of the hind limbs．
The action should be very powerful in heavy－ draft horses，as their powers of draft are pro－ limbs．A cart horse should make full the hind forward under the body at every stride Great muscularity of the quarters，thighs and gaskins
as well as broad and strong hocks，are essential to powerful hind action．Any tendency to brush elther in front or behind is a very serious fault，
as it may interfere with their usefulnoss fore feet and the hind feet，respectively，should we kept well clear of one another when the horse
walks．this being among the most important quirements of gond action．On the other hand the action must not be unduly wide，because in that case the horse is usually apt to roll in its
gait，which means a loss of power，while it most ungainly．Clicking or forging is also deffect of action which is objectionable in cart
horses，but which is not of very frequent occur
$\qquad$ for＂The Farmer＇s Advocate．＂it is a very nice knife Farmer＇s Advocate．＂We often find advice tiake＂The
Wh it which


## Start the Teams Easy．

Perhaps it will not yet be too late to remind your eaders to start their teams easy at oong to to them all the exercise they can，suct，anything but idio－ hess．Toughen them in this way，but not enough to intigue them．Keep them in good heart，with good eed and light work，and be careful not to take the
lick out of them on some over－load or big job；then when work on the fields starts，spare them the first two or three days，even more than they appear to need． Bring them to it by degrees，and what you afterwards． rst days whe the shoulders off，also he collars，and rest often．Instead of giving them a good rest every two hours，try giving them a little

## LIVE STOCK．

## Infectious Abortion．

 Abortion of a contagious or infectious charac－ beef cattle breeding that stockmen generally are studying the matter diligently，and seeking con－ fessed that but little progress has been made to－ wards eradicating the disease or actually curing a cow infected by it，but much has been learned relative to the course taken by the malady，andone measure，at least，has been devised whereby affected cattle may in time become immune to the effects of the germ．
Cause－－Difference of opinion exists in this
country and Europe regarding the exact identity country and Europe regarding the exact identity
of the microbe causing infectious abortion，and little is known as to the exact manner in which it produces the abortive act． more virulent than that experienced with us，but so far as America is concerned，scientists have about decided that the germ is a bacillus akin to
bacillus coli，that its habitat is the womb，and that it doubtless invades，also，the horns of the womb，the Fallopian tubes and the ovaries them－ selves．The bacillus（germ）may be found in the discharges of a cow that has aborted，
lining membrane of her vagina and womb，and，in some instances，at least，between the cotyledons of the womb and the membranes containing the alimentary canal of the calf，but our scientists have not made a similar discovery．
Spread．－The disease gains access to a herd in ne of several ways．The commonest manner of these disease is spread to sound cattle，until，from one to another，it may affect the entire herd．The cow discharges from her vagina matter in which
germs abound．This falls upon the ground，dries， germs abound．This falls upon the ground，dries，
and may be conveyed to the vagina of a healthy cow．Where cows stand in a stable，the gutter catches the impregnated matter，which is moved back of sound cows as the manure is shovelled to the gutter，wet them with tainted material， contaminate their vaginas，and so contract the disease．The germs are living organisms，and
when introduced into the vagina multiply rapidly and find their way into the inner parts of the generative organs．The bull，by serving a cow infected with thed disease，contaminates his penis， served．The germ may also be contracted from the clothes of an attendant，tainted hands or in－ struments，and is doubtless frequently contracted in shipping chutes，cars，and similar places in Effects Produced by Germ．－Soon after the in－ troduction of the germ small blisters may be seen upon the lining membrane of the vagina，and a blisters（vesicles）burst，ulcers form and gradually heal，while fresh crusters of vesicles appear，or may be found further in．According to the and the irritation consequent upon inflammation， abortion then takes place early or late in the period of gestation．
Gradual affected，but aborts later during next gestation and even later the following one，until，after sev－ eral abortions she may carry the calf the full disease．Fxperience goes to show that affected cows in time become immune to the irritating ef－ fects of the germ，and are then able to successful－
$l_{\mathrm{y}}$ withstand its presence and consequently come regular breeders．There is an exceptio be－ this rule，and that is where the Fallopian turies become invaded by the disease，and are so altered in function－which may include the ovaries－or ob－ flammation that they cause barrenness of the in－ cases are seen in most outbreaks of the diseape． she continues to discharge is becoming immune She continues to discharge germ－laden，naterial
susceptible cows with which she is stabled
pastured and bulls with which pastured and bulls with which she is mated. Fo these reasons, the disease continues to make it
evident in a herd so long as fresh material is troduced upon which the germs can act.
fre dies out when combustible materi
hausted so infer hausted, so infectious abortion cea mentally affect cows when all have become germ will have aborted several times before this stag of immunity is arrived at.
ing towards final immunity of each - While working towards final immunity of each cow in the
herd, much may be done to lessen the irritation caused by the germ's presence, and, if successful, such measures prevent abortion when its premoni-
tory symptoms are detected in time. Where tory symptoms are detected in time. Where nancy threatening symptoms are difficult to detect, but later such symptoms precede the abor-
tive act by several days, and in such instances the tive act by several days, and in such instances the
act may be itself avoided by suitable treatment act may be itself avoided by suitable treatment.
The following symptoms may be takien as indica-
tive of threatened tive of threatened abortion: Sudden relaxing of
the vulva and pelvic ligaments; increase in milk the vulva and pelvic ligaments; increase in milk
flow, or sudden appearance of milk in the udder ; rewt lessness; stepping up and down with hind
feet ; looking around at the sides increat changed appearing discharge from vagina ; bellow ing, and, in short, any of the characteristic symp-
toms of either "" heat ", or calving Foll these symptoms the cow cor calvingences to strainowing and the calf is born. In early gestation the calf is usually aborted without straining.
isolate cow in secluded box stall, and administer one ounce of fluid extract of black haw. If she
is restless add a wineglassful of laudanum. Repeat dose every two or three hours until restlessout the lagdanum and go on with the black hop in half ounce dose three times daily until vulva
purses up and all remaining symptoms of threat purses up and all remaining symptoms of threat
ened abortion disappear. When cow is again in
the condition existing prior to alarming iymp toms, she may be returned to the herd, and will then, as a rule, go through safely to her prope time of parturition. In extremely urgent case given once an hour, until the desired effect is ob tained. Fluid extract of cannabis indica is effective as laudanum, if of first-class quality.
is, however. more is, however, more expensive and less reliable
quality. General Preventive Measures.-While we do n
consider it possible to kill out the in any cow fully impregnated so that the wom fectants may tubes have become invaded, disin tion and preventing further contamination spread of germs to less affected or clean co in view. Injecting two draned with these end solution under the skin of the cow's neck or-cent every ten days throughout pregnancy, is alleged to prevent abortion. The administration of pure we have for years advocated the administrat of this preparation in the following way: On half dramn each other day, night and morning, mixing it in water and then to last of pregnancy, take it that way, or as a drench in water, from bottle, or sprayed upon their hay or other food, rate of one pound of pure carbolic acid mixed ine 50 pounds of salt. One carbolic acid mixed in day for cows that have recently aborted or that have a discharge from the vagina constituting the
disease known as leucorrhma (whites). insease known as leucorrhora (whites); in the first least two weeks, and then given every other day kept up until leucorrhooa disappears instance to be kept up until leucorrhcoa disappears. In addition
to this precautionary treatment, the cow that once aborted and is again in calf may be kept ha lated and treated with black haw and laudanum be liable to abort during the second she would This time is about one month second pregnancy period at which she aborted during the previous cleanliness must be maint Measures - Scrupulous pied by cows. Every day the vulva, inside of sponged or sprayed with a two-per-cent. solution
of zenoleum or of zenoleum or similar tar product disinfectant,
or with a $1-1000$ solution of chloride of zinc, or 1-3000 solution of bichloride of mercury. Gutters
should be cleansed daily without moving manure should be cleansed daily without moving manure
along gutter from one cow to another, and the
cleansing should be followed strong disinfecting solution, such as ire use of a of zenoleum, or or four pounds each of powdered
ofluestone (sulphate of por bluestone (sulphate of copper) and fresh lime in
forty gallons of water." (Bulletin lorty gallons of water."
Experiment Sulletin 125, Alabama
Station.)
Walls and should be frequently whitewashed with a mixture of ordinary lime wash containing a quarter of a
pound of chloride of lime to the gallon. A spray pound of chloride of lime to the gallo
pump may be used for this purpose.

Disinfection of Bull-The bull is to
large box stall to himself, with ample
tached for

## Judging at Fairs.

## at pasture. Sexcise, and is not to run with to neighbors' bulls is

avoided, and herd buli should not be allowed to
charge from the vagina hor known to have recently
aborted
aborted. After each service, the sheath and penis of bull are to be thoroughly flushed or washed use half a gallon of a $1-1000$ solution of chloride of zinc, or two-per-cent. solution of tar-product
disinfectant. It is best. introduced into sheath disinfectant. It is best introduced into sheath by means of a nozzle attached to a six-foot length
of half-inch rubber hose fitted to a spout let into the rim at bottom of a large, clean pail, to be hoisted above animal's back by means of a small rope and pulley, Insert end of nozzle in end of
sheath. Hold skin tightly about end of to cause retention of the tluid which should then be allowed to flow in until sheath is distended, When nozzle may be withdrawn and the fluid al lowed to gush forth. Rereat the cleansing at Treatment Following Abortion.-Whe
aborts remove her to a box stall. By means of apparatus already described flush out womb and
vagina with two gallons of milh-warm disinicating Vagina with two gallons of milh-warm disiniecting
solution (1-1000 solution of chloride of zinc preferred), remove afterbirth hy hand if it does not come away promptly, repeat irrigation of womb day for two weeks, then twice a week until
dime arrives when cow would hawe then every other she not aborted, and at which time she should again be bred if periectly free from discharge.


## Mabel 8th of Knapperana



APRIL 26,1906
ts, we neter enquire
the judges. Every jud
reasons for his decisions
1 might state that
in your editorial have
on
ther at the conventi
airs and Exhibit
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$\qquad$ the the iuderetes as being strongl
Agriculture has been a pronouncen the Teparturen as the case this year
Untario Fairs Associatio ne delegate, brought about "hen a criticism. Leet to support the expert-judge system. delegutes to th fopt of he work of each jude te, and a careful rereord eceived from the bourn
which he acts, his sarvis




 mirnt and maintenance of the most approved tyses, it
now very evident that all the breed associations shoul tahe ap the question of nominating apporoved
judges more
ioriously and systematically than
 out of the stock-ju

The U. S. Sheep Situation. Hes. sheep situation in 1905 was one of uncloude
rosperity for Americian breeders and flock-owner
aver was there Never was there a year when the demand for both wo
and mutton was so great and priecs so encourghing
conscauence. the part
breeding
$\qquad$ of sheep and lambend was trenendous for eevery cla withstanding records.
Mre
mreeding hreeding ew
and shipped of this number during the yaured an agaiust chicago marke Wion Stomkerarder and Transit head were dipped by th
 ricas were




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THE FARMER'S ADVOCATE

## THE FARM <br> Protection from Lightning

Clearing Land in Algoma

Merthaps I cunnot drescribe the best method and im- but 1 will give my expericionce Whun $I$ cam district, Was a mixture of and others told another. My timber

$\qquad$
$\qquad$ Hirch was cut in piled it up in convenient piles. Birch was cut in 20 -inch wood, which is worth $\$ 2.50$
rer cord single length. limbs, as "no waste" is my motto. If it is convenient to huve it made into lumber, so much the better, as it into lors for lumber: the poor into wood, is cut Spruce is cut for pulp wood, 4 feet, worth $\$ 4$ cord. 4 feet. The best butts of cedar I saved for shingles, the balance for rails, posts, stakes and wood, 4 feect. mixed cut all winterth $\$ 2.25$ per cord. I wasted nothing. it, and one can nearly always get a good burn, as there is so much green top in the brush. What is left is
logged up, and some small stumns can be
$\qquad$grood crop of hay fors six seears or so, by that time allthe stumps, excepting pine. will pull or burn out. I I
have one firld on which I have cut hay for nine vaars

Warrior.


To Remove the Afterbirth.
Remove the Afterbirth.

Root and a hall from one end. this extra length opened out and wrapped around the rod where attach
This makes all solid, and forms cood dlectric tion. At the upper end of point the wires shoilid be opened out a few inches, and spread apart in all
directions. directions. $\begin{aligned} & \text { Having got the full } \\ & \text { can begin to th required, you } \\ & \text { manufacture the rod. }\end{aligned}$ Use soft galvanized number nine wire, nine strands. A wagon wheel answers very well for twisting. Set the wagon in a
convenient place, and raise the wheel ns if tar convenient place, anc raise the wheel asiv ror greasing
Measure out the nected length, and drive a stake with a hole bored in it, through which the ends of wires can be passed and bent around. The other ends of wires can he hooked, each one around a spoke of the wheel
close to hub. In mensuring the wires, care should be taken to have them of equal length, and an allowince made of one foot in 200 for shrink in twisting. Now, having the nine wires stretched out and fastened secure-
ly, before beginning to twist. 1y, before beginning to twist, irace well both wagon
and stake, for there will be considerable draw
It well, also, to throw across under the wires some old rails, to keep them out of the mud or grass. Turn the
when until the conble is sufficiently twisted to thond towheel until the cable is sufficientry twisted to hold The rod can be stapled closely to building cork can be put under at each staple if desired. The old idea of the necessity of insulation has been entirely
abanduned. $\mathrm{T}_{\mathrm{o}}$ hold tho points upricht, yet the black. abandoned. ${ }^{\text {smith to make for ench an iron tripod. }}$ Havo the rods run in as direct a course as possible, the fewer sharp turns there are the beter.
A rod such as described will weigh one-half pound per foot, and the cost of material, fittings included, for
a barn $\overline{0}$ feet long. 40 feet high, will be loss than
and ${ }_{85}{ }^{\text {a }}$

## Plant Trees.

We have been pleased to note through the
country of late signs of an awakening interest in the preservation of the farm wood-lot. Here and there is to be found a bush whose owner
has been keeping the stock out of. it, and in every such case the dense growth of saplings and in creased vigor of the old trees demonstrates the
wisto But duty to oneself, wife and children does not end here, More attention must be piven to
the planting of trees about the buildings if we are
the to make this country a charming place to live in.
Plant trees, grouped, scattered or in rows, about Plant trees, groupred, scatered or in rows, about
the house, around the barn, along the lanes and roadsides. For such planting, nothing else, in our mind, can touch that grand, clean, beautiful tree, the hard maple, whose leaf is our national
embiem, whose sap yields our most delicious sweet, whose foliage forms such delightful shade, and whose wood makes not only the best of fuel.
but one of the most valuable kinds of lumber: but one of the most valuable kinds of lumber.
Plant maples around the south and east sides of the home to provide shade in summer, on the north and west a belt of Norvay spruce is a
quick-growing and first-class protection against trees. The time is couming when no barnyard will be considered complete unless it it in protected by a
shelter-helt to shut out the winter winds and shelter-belt to shut out the winter winds and
make the baryyard a pleasant cxercisins place or stock, and a comitortatle working place tor
he owner. It should not be forgoten that trees are a
great protection against lighning.
H lant his spring about the homnestrad-maphes ant greens on the exposed sides There is mothing wither and die. Shrubs last longer, but, soomen or later, die too, and it neglected pite a place
dilapiatated look the tree stands. Ifit, a stalwart.
defying time defying time, growing in grace and statelinmss and blanter

Let Us Grow More Corn

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Does Seed Selection Pay?

## wied Farnars of Victoria Non

secd tselection
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petition, he
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## Again the Split-log Drag.

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hand
and

## Old Tobacco-plant Beds versus New Ones.

of improving the common clay roads of the cour of its use as follows
My interests demanded frequent travel over the road between my farmhouse and the village, amit 1 atways felt a keen resentment when bad roads made
a state of dificult or impossible to drive to townA littlo investigation and experiencen temon strated to me that this was by no means the re sult of indifference or inactivity on the part of
our road corumissioners. Then our road commissioners. Then 1 reached the con-
viction that it was the fate of the farmer to spend $\$ 1,500$ to $\$ 3,000$ a mile for macadamized road or else travel in the mud in all periods of continued wet weather-which is to say a very
large proportion of the year. This conviction is Targe proportion of the year. This conviction is
almost universal amongst farmers who have really
 experience its difticulties.
Howerer, this state of doubt and discouragement did not long continue, and 1 began to 1 in
vestigate 1 and experiment way Acting ander this persistent
periment, 1 gupulso periment, 1 one day hitched ny teamp to a drag
made of a frost-spoiled wooden pump) stock angl
 Smooth wire served in place of a chain, and in strip of plank laid betwent the post and the
pump stock gave me a rough platiormin moon which The horses were attached at such a point of the wire as as give the drag a slant oi about the earth that it would gather from thus sider of soaking rain, and the center IW soaking rain, and the earth was
dition. 1 had driven this dran when 1 was fully aware that
least the initial purpose for
least the initial purpose for which it was intend ed-that of levelling down the wheel rut and push ar At my neighbor's gate, toward town the road. around and took the other side of the road back

 experiment . of my road conered by my original
ter than end of three months the road was betWer than when it had been dragked for three
weeks. and at the end of three years it was im-
mensil of the first year's work. I studicect the result on each stap in my experiment, and tinally learnod
that three clementis are required to make a pert-
fect carth roadd and that Satal to the and that the lack of one of them hard must the at one and the same time oval nard and stmowh All or these imdispensathes are
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I chanery
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When and How to Apply Manure

When and How to Apply Manure
weeds, owing to seeds in soil of new plant-bell weeds, owing to seeds in soil of new plant-bed
In old plant beds, when the weeds are aboul cleaned out, the young tobacco plants often damp
off and destroy stand. while giving oft and remaining, plants with sore-shin sicknes The disensed conditionc arise from parasitic fumb which develop in the soil and accumulate fron year to year, until plant-growing becomes ditti fronts greenhouse lettuce-growers, and infest both the plant-hed and the house beds, or areas in which the crop is brought to final develop, ment. The difficulty has been greatly reduced, of
overcome, by sterilizing the soil oi these While steaming is a most excellent method in this, a solution of formatin in water, applied t the soil by sprinkling with this solution, has alst
been fairly effective. For this reason, it swont worth while to try the formalin method on oh tobacco-plant beds, at least in an experimental of formalin is to be added to tifts or pounds of formalin is to be added to fifty gallons of
water (or in like proportion to smalier amounts and thoroughly stirred. The solution thus madn is to be applied upon deepls-stirred bed-soil, untib to eight inches. This will require, approximate ,er square foot of surface area. After solution ment the soil is allowed to dry for about a week be sown in the usual manner. if sown seed mav after treatment with formalin, seed germination nay be impaired. The treatment is simply to

It has been with much interest that I have watched
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Have the Name on the Gate.


If ther

Spring Suggestions.





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| $\begin{aligned} & \text { It costs about as much } \\ & \text { rood one. Any increase ir } \end{aligned}$ |  |
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Coloring for Concrete Finish.

## Growing Rape.

To supplement pasture, and for many kinds of stock, there is nothing we can grow better than rape For hogs from 50 to 150 pounds, there is nothing we can give them in the summer time that will aid us to make pork cheaper. Fed with about can be grain ration, the cost of a pound of pork many waste spots around the barn that will probably grow weeds that might much better be growing something that is valuable, and also remove an eyesore. Then, for young cattle six months get plenty of rape for on a field where they will grow about twice as fast as they will thrive and It is also great for dry cows. If cows are freshening in the fall and winter, and are consequently dry along in the fall, instead of having them on short pasture, as there is apt to be in the fall, I up in good order, and be in great shape for work when they freshen. Circumstances alter cases, and every man cannot follow the same plan, but My plan is to same to suit his own conditions. ture the very first seed we sow in the spring Then, two or three weeks later, we sow other plots. We have here on the Annandale Farm a
great many hog-yards, as a great many hogs have breen kept here for years, until the lany hogs have poisoned. In order to sweeten it up, the last year we broke up each yard and plot that was hot covered with trees; plowed some of the ver with the harrows, sowed the seed, and gave it another stroke with, the harrows. Where pos-
sible, it is better rolled also We hed sible, it is better rolled also. We had a great
lot of feed all through the summer and till snow came. We sowed some seed in April for hogs, and one pasture lot, in which the grass Nas getting run out, we broke up early in July rich, it can be fed down with hogs, and then, if an chad green again in a couple of weeks. Where and had a good deal oi good feed there. Then July, fallwheat stubble that was not seeded, and we aned to fit for potatoes next year, we skimmed over well, and sowed some grass, harrowing it the wheat and rape grow up and make a nice bite I have several pieces of old pasture land here that have rather far from the perhaps 20 or 30 yearsfor any other crop. I shall plow them up the and work it up for rape smooth enough to plow, this lot in June; then in August and So rape for that have a fine feed to supplement the pastur young cattle, and can dry and short for the had not this land to break them growing. If I from which I was taking hay, but had a fiel us soon up the next year, I would plow it just put rape on it. It would make work it down and cven fall, because it is a maod good returns in
eved longer than The ground, also, would be in better hot hurt it kinds of stock, but we cannot great feed for all make milk, as it will make the milk a bad it to clover, and put our milk cows on the second crop of the rape and old young stock and the dry cows on soon show one just how to grow rape to best will to best ada full stomach, then on in the afternoon, and with (o) give them a good supply of coump be safest of the stomach on the fire will be no impaction rape every day, day, and they are kephere on the wards. We have had no trouble with ste afterprecaution., but we have exercised this simple morning. When the dew was on, they would be
more likely to bloat. of Three sears ago 1 sowed about half a bushel Whice year I will sow two bowed a bushel, and
tron thents, and perhaps
Wwed broadcast is 6 pounds to the orked up, the better. plenty. The finer the soil is s anvthing land. but will make best good strongSowed any time from the first of lang ind. Cain be Sugust, i, oft. of course, when sowed late in Aug till a little pasture late in Oor much growth. Stili, the pasture is frozen, doesser, when the rest of
good. Young cattle that are ture fat and in good order, winter on off the pas-

## Pointers About Underdraining.

## drain, says Prof. J. $B$ Revnolds of he Ont

 Agricultural College, Guelph, will depend upon number. The length of the drain
The depth and distance apart of drains. The character of the soil above
5. The maximum amount of rainfall to be pro vided for in a given time.
The rate at which water will flow in a tile of given diameter, with a given grade, and the
amount of water likely to reach the drain in certain extreme circumstances, have been made the subject of careful investigation, so that the f lowing relations may be confidently stated not be laid in a drain more than 500 feet long A three-inch tile will drain five acres, but th drain should not be more than 1,000 feet long.
A four-inch tile will drain twelve acres.
A five-inch tile will drain 20 acres.
A six-inch tile will drain 40 acres
These rules apply primarily to mains and sub-
mains. For laterals, the limits as mains. For laterals, the limits as to length
above stated will apply, provided there is a good above stated will apply, provided there is a good
fall. Where the fall is slight, a larger size of tile is to be preferred.
Junctions.-Faulty
mains are the cause of impeding of lateral. in the main, and of lodging silt and finally wat ing the drain. It is sometimes best, when lateral has plenty of fall, to make the junction two inches above the bed of the main. at an angle of 30 degrees, preferably basin is a valuable device in draining. The silt and importance cannot be too well, and its use more bed (1) at the junction understood necessary to change in a line of drain whe less steep one
Silt Basins.-The purpsio to collect silt or mud in a part of the basin be
low the line of tile low the line of tile, and thus prevent the sasin belodging in the drain and finally blocking the flow in form, the silt basin is a small well, 12 to 1 the line of tile to the ground surface, where it provided with a movable cover to allow occasion al cleaning.
stone or plant

## Practical Hints on Underdrainage.

## One of the first things necessary in beginning under draining, is to carefully ascertain where it is needful for the drains to be laid, so as to give the proper re sults. sults. My own mode of placing drains is to put thei where there is need of an open water furrow. An portant part of the work is having a good outlet i than the laterals. <br> $\qquad$ the spring, often before cultivation begins, and late in the fall. Also at these times there is sufficient wate collected to make the levelling of the drains and matter. Besides, the work can be more speedily done when the ground when the ground is moist. In the absence of water in drain, the fall can be easily found drain, the fall can be easily found by placing a spirit- level on a straightedge ten or twelve feet putting it alolong the bottom of the drain. a ditcher's outfit, which may be purchased at any hard

 Sometimes in beginning our drains we plow tuodepths with the plow, but the remainder, except the filling in, is done ty hand. In ditging laterals, aly
conmence at matin drain and dig against the sta commence at main drain and dig against the slope.
depth of drain will be determined by the distance it to draw water
from $2 \frac{1}{2}$ to 3 30 to 60 feet. All my drains are 2 d anea of fion mains, which are a trifle deeper. The bottom of the
drain nust have a continuous The next step is the laying of the tile, by all means placed conveniently along of the work. Have the tile the man in drain can reach them easily and put
in place. He begins at the lower end, by making nection with main drain. This is of importance, made in tile in main drain large enough to enter tile from lateral. This hole is made with a chisel and hammer. The connection made, he proceeds. up the
lateral. laying each tile on the bottom of drain, lateral. laying each tile on the bottom of drain, and
puts his foot firmly on earh tile as he proceeds, thus making them firm, and making sure that the ends pressed closely togeth
Next thing done is the filling in of the drains. along the drain with spade. loosening enough
top soil to cover the tile and keep them in place. reason for putting the top soil on first is that it is more porous than other soil, and causes the drain to
work better. The remainder of filling in is done with team and plow.

## other drains are working properl part of Ontario ditching machines

cess, costing more to do the iob thane not been a suc
draius Around herains thave laid cost from 16c. to 20 C . per rod. tround here nearly all draining is done with three-inch
tile, which are thought to give better results than a smaller size. Three-inch tile are $\$ 10$ per thousand; rour-inch tile, $\$ 16$ per thousand: five-inch tile, $\$ 25$,
and six $\mathbf{x}$ inch, $\$ 36$, and up to $\$ 100$ per thousand, looded on cars.
 Tarming, and is have been speaking of is for general orchard work. T Tight add that drains give better
resuls after the first year. Oxford Co
(Note-Tile can be purchased for making connections of branch with main drains, , taving a croth or $T$ shape.
It it is hetter to use sumb

\section*{Plowing Matches and Prize Farms.

## Plowing Matches and Prize Farm.

## Plowing Matches and Prize Farm.

and many farm boys to plow for the first time ; that is to say, to be in charge of the team, and wholly responsible for
the work done. Many boys, when plowing long as they keep the team going and turn the soil over, think that this is all that is needed and there are also many farmers satisfied with a straight. clean. neat furrow thers will try to cut that make plowing a pleasure instead of hard work, and, as a rule, they will be driving a good clean, neat team. Not only that, but we als
find the boys that drive such teams drawing their numbers for the plowing-match ground where there is such a competition held within reasonable distance. There is nothing that a young plow than to be able to say that he has not put crook in it ; that is to say, he has cut every fur he wrue and plowed each land square. When teamsters and himself would compete for small arrange the matter among themselves, and quite as much excitement would be caused as though a general plowing-match was taking place. Not
only had we the satisfaction of seeing neat work only had we the satisfaction of seeing neat work
done, but also there were the benefits which the master reaped-the effects of good plowing.
Now, the first step to be taken to encourage the young plowman is the organization of more plowing-matches. This requires the aid of only
a few farmers in every district. Perhaps some farmers will think it would not pay them to give
prizes, but those concerned in prizes, but those concerned in a plowing-match
not only get their funds returned, but fifty times their value In fact, the full value obtained
from well-plowed land is not known. There are weral reasons why plowing matches should be the plowman's mind to take an interest in their work; thirdly, they help to increase the value of the farms which have made Canda what she is to-day. to make, is a competition among farmers
themselves, to demonstrate who can grow the best crops and show the cleanest farms. Agricultural and Fixperimental Union at Ontario and it should be encouraged as much as

Improvement Discouraged by Taxation. I think
FARMFI
 building taxation is not the omy. troublesome
feature of the system. (ne of the most moticeable evils of the present system can be sten when
we look orer some districts, and find a great deal of untilled land-not wood-lots. but swamp-lots.
We have land right in our township that is of the very hest for raising grain and hav, which can be
put in a tillable state for $\$ 15.10$, per act still untoucher. Why is this? There may more reasons than one, but to my mind the chind
reason is this plan of taxing a man a little "xtra nothing has grown in the past. This when
 man is taxed for making two bades of aras-u...
where only one grew before, is barbaroms. Now, it has been proven in the past that a live one is to mave it discussed in ".. Th er's Advocate," and I sincerely hole that
subscribers will give their views, and that subscribers will give their views, and tha
have some result. in the way of legislat

## Cuts His Straw at Threshing.

## I have even nuch interested in the discussion of h, to apply farmyard manure. For a number of years to apply farmyard manure. For a number of years, have hauled our manure direct from stable of tield, a, spread on ground intended for hoed and spring cron

 spread on ground intended for hoed and springnotice that a number of your correspondents ob putting manure on spring crop, because it clogs the
tivator and seed drill.
This trouble we overcul tivator and seed drill. This trouble we
cutting all our straw short at threshing. I often wonder why the practice of cutting the straw is not more general. It will pay many times ow
First, at the threshing, it will go into much First, at the threshing, it will go into much less than
one-half the space, and can be kept under the roof set a cutting-box right behind machine, and and Wo at cutter will take care of the straw. The less lat.ar required in straw-mow more than pays the five dollars
extra charged for cutter. All authorities agree that extra charged for cutter. All authorities agree that the iquid manure is the more valuable. If this is true
the short straw has an immense advantage ower llong
straw, because it absorbs the liquids a great deal butthe short straw has an immense advantage over long
straw, because it absorbs the liquids a great deal brt.
ter. If you have a wet stable floor, try short strallthe shorter the better. It mahes much nicer bedding,
and does not slip and get pushed back like long straw. and does not slip and get pushed back like long straw.
I claim that pulling manure made with long straw out of a pile is the hardest work on the farm. With short
straw it becomes one of the casiest; the time und pllow grease saved in handling it is considerable. But thin may be spread thickly on the land, and does mot int the least interfere with spring cultivation. It mixes eatily
with the surface soil, and rots more quickly.

## Try the Split-log Drag.

Our American exchanges are still loud in thoir praises oi the split-log road drag, illustrated in your geighbor's gate in the direction of town to.". Do it when the roads are muddy; pass along one other reund and quit for the day. When the road begins to, dry after the next rain go over it again, and so on throughout the season, especially dur-
ing the fall and spring. They say no one will the lieve how effective the drag is. it will not make a good road out of sand, for sand does not make a stiff mud. It will not make a good road where
there is not sufficient drainage. It will not work there is not sufficient drainage. It will not work
well among stumps and stones, nor whire the road rowing in the roadway, will preserve a crown beter there is one, and will keep clay roads in
bettition than any other means of road-
working. I set some of our readers try it

## Tarring Fence Posts. <br> building sences, perhaps a word wh adrice which not bee wat of place re tarring the right would nelghbor has a fence which was bult about ten which wore with very small, inferior posts, but thoroughly. There and is standing the test these, while othere which wory decayed wood on same time, but without the coat of tar, have de- cayed bacly, esprecially near the surface. When we take this trouble in 2avew wix

Poor Seed Dear at Any Price.

Never Throw a Smut Ball on the Manure Pile
homell water In a fow daps connt the numbler

 5

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THE DAIRY.
Cheese an Economical Fcod



Cream Grading in Minnesote


Provide Summer Feed for Milk Cows.
tholto of nations. The motto for stockme
thandel be." In tim. of plenty of moisture pre
pare akainst drought." Stockmen, if caught with pare against drought." Stockimen, if caught with
" shortage of pasture, often lose more than they are a ware. From a breeding standpoint,
horel is allowed to get in poor condition herd is allowed to get in poor condition it is
mratly injured. A great loss is also occasioned
hy their lower production at a time when the value for milk is sure to be the greatest in the
case of milk cows. While I do not think that ase of milk cows. While I do not think that
any soiling crop can take the place of good pas
ture, still in a very dry able to have good pasture. I believe, though in first doing our utmost in keeping the pasture good
throughout the summer. We must look ahead and provide for something fresh in the pasture clover a week earlier than it is generally cut, they
would get a large aftergrow th which would more than make up for the loss, if there were any, by sometimes hard to get suitable wather to cure
hay in the last week of June or first of July, but ii it is wet and damp then we are not likely to
have short pasture for a considerable spely, and time. I think it a wasteful method many dairyafter the middle of June or first of July; the If not really need it very badly at that time would be much fresher and nicer later on when they needed it more. If corn is grown where it
can readily be available for feed before the clover is eaten off too short, it will prove of great ad-
vantage in the event of a very dry summer. Still, if clover crop, it is necessary to or a failure of the the best feed to supplement short pasture is undoubtedly ensilage. It is, in fact, just as good
to feed in the summer time as it is in the winter time, and requires much less labor feeding it out quantities of any green feed. If a dairyman has not will be well to put in a piece of peas and oat
where it will be handy needed, it will be of equal value to any if other
crop for the grain crop for the grain it will bear. In feeding soil-
ing crop, it must be remembered that it takes cows a considerable time to get accustomed th
eating any considerable quantity of it, and
mistate mistake is often made of waiting too long before
starting to feed it. In the case of peas and oats, if it is likely to he necessary to feed the cows on
it, it would be well to start cutting and giving them a small quantity about as soon as the oats
were coming out in head, then, a little later, they would be accustomed to eating this feed when it was at about its best feeding value. If some
hay is cut early and put in in very nice condition it will be found, in the case of short pasture, tha a cattle a wonderful hat of given daily will do the up the milk flow. Then, a plot of corn should be handy to the barn, and this can the put in quite early, so that it will be available for feed-
ing during the fall. The stockman will look ing during the fall. The stockman will look
ahead, study his own conditions, and work out a system that is most convenient in his own case
That is, after all, the main That is, after all, the main thing to do-to see
the necessity of looking ahead, and to provide for short pasture is a very important point. A man get left many a time. In the case of providing for my own stock, I have solved my problem thus
Iast year I had a large field of clover quite ne the barn. and had a great amount of pasture from corn, potatoes and beets, we require the land near manure, and there are a great many tons of crop
to remove, so that I have planned to hay on the fields furthest away from the barn.
This year, one 35 -acre field, in clover acrose th. road, is over a mile from the barn. I shall cut
the first growth for hay growth down in that. field. And Another field of of 23
acres I intend to clip about. the 10th to acres 1 intend to clip about the 10 th to 15 th of
June, and let it lie for a mulch. That field is far away to draw manure to, and it needs somegrowth will get a good start, and be fresh second
most needed. hroken pasture land which liage acreage of unlows of the year, but if we are expecting milk
cow to keep up the flow of milk, we want good fresh pasture during August and September. We
have, also, a third clover field available for ture after the hay is removed, and which should
make a nice fresh bite in August and Septemer: so I think we have provided a fairly good bill of
fare for the milk cows. We have ensilage to back ol. if need be. For dry cows and young

The Man as a Factor in Successfe! vairying.

$$
\begin{aligned}
& \text { talk spent on the dairy cow, to try to improve her } \\
& \text { and to induce men to feed her and care for }
\end{aligned}
$$

$$
\begin{aligned}
& \text { more profitable results, said C. P. Goodrich, be- } \\
& \text { fore the Wisconsin Round-up Institute, at Plymouth. }
\end{aligned}
$$

fore the Wisconsin Round-up Institute, at Plymouth.

$$
\begin{aligned}
& \text { said or done in this line. At the same time, } 1 \text { will } \\
& \text { say that there has not been enough said about the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { say that there has not been enough said about the } \\
& \text { dairyman. Good dairy cows will bring no profit unless }
\end{aligned}
$$

$$
\begin{aligned}
& \text { dairyman. Good dairy cows will bring n } \\
& \text { handled by a good dairyman. }
\end{aligned}
$$

Some years ago I attended the meeting of the

$$
\begin{aligned}
& \text { Some years ago I attended the meeting of the } \\
& \text { Indiana State Dairymen's Association. I talked about } \\
& \text { the cow, the breeding, feeding and care of her that }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the cow, the breeding, feeding and care of her that } \\
& \text { would insure profitable returns. The audience were all }
\end{aligned}
$$

$$
\begin{aligned}
& \text { would insure profitable returns. The audience were all } \\
& \text { strangers to me ; I was unable to arouse much enthu- }
\end{aligned}
$$

siasm. They seemed-with two or three exceptions-to
be cold-hearted on this subject. After I had finished
my speech, a gentleman in the audience arose and said:

$$
\begin{aligned}
& \text { wise he could not talk in such a way about the cow. } \\
& \text { I have no doubt his father was a dairyman before him, } \\
& \text { and quite likely his grandfather. And I will still }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and quite likely his grandfather. And I will still } \\
& \text { further venture the guess that he and his people came }
\end{aligned}
$$

$$
\begin{aligned}
& \text { State, where they have been dairying for generations. } \\
& \text { But we Hoosiers are different: we hate the sight of the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { But we Hosiers are different; we hate the sight of the } \\
& \text { dairy cow. I tell you, Mr. President, the man must }
\end{aligned}
$$

$$
\begin{aligned}
& \text { dairy cow. I tell you, Mr. President, the man must } \\
& \text { be bred right as well as the cow. It would take } 200 \\
& \text { to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { be bred right as well as the cow. It would take } 200 \\
& \text { years to breed us Hoosiers up so that we could love } \\
& \text { the dairy cow as Mr. Goodrich does." }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the dairy cow as Mr. Goodrich does." } \\
& \text { I have thought of what this man }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I have thought of what this man said many, many } \\
& \text { times, and the longer I live, the more I am impressed } \\
& \text { and the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { times, and the longer I live, the more I am impressed } \\
& \text { with the truth. of what he said. For many years }
\end{aligned}
$$

$$
\begin{aligned}
& \text { with the truth of what he said. For many years I I } \\
& \text { have made a study of the cow; studied how to provide } \\
& \text { her with proper feed to enable her to do her best in }
\end{aligned}
$$

$$
\begin{aligned}
& \text { have made a study of the cow; studid how to provide } \\
& \text { her with proper feed to enable her to do her best in } \\
& \text { giving milk; studied her likes and dislikes; observed }
\end{aligned}
$$

$$
\begin{aligned}
& \text { giving milk, studied her likes and dislikes; observe } \\
& \text { how she craves a variety of food; how she !ikes }
\end{aligned}
$$

good. clean, healthy stable, and how she enjoys a good

$$
\begin{aligned}
& \text { by the hour in my own stable, and at every other place } \\
& \text { where I had opportunity. The cow stable is a delight- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ful place for the true dairyman. } \\
& \text { Of late year I have been studying men as well as }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Of late years I have been studying men as well as } \\
& \text { cows, and I find that the man who dislikes the dairy } \\
& \text { cow, and spends as little time as possible in her societty }
\end{aligned}
$$

he hates the cow she will hate him, and will not do

$$
\begin{aligned}
& \text { well for him. If he loves his cow she will come to } \\
& \text { him when he returns home from a few days' absence to }
\end{aligned}
$$

be petted and tall you about a farmer I visited in this

$$
\begin{aligned}
& \text { State while taking a cow census. He had a large } \\
& \text { farm, good buildings, good horses, a fine flock of Shrop- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { farin, good buildings, good horses, a fine flock of Shop- } \\
& \text { shire sheep, and good hogs. When I came to look at } \\
& \text { his cows, I saw they were blocky, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { his cows. I saw they were blocky, broad-backed, beefy } \\
& \text { cows. I said to him, "You don't like dairy cows? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Cows. Isaid to him, } \\
& \text { He said emphatically : } \\
& \text { II have no love }
\end{aligned}
$$

When he saw I was about to write down what he

$$
\begin{aligned}
& \text { said, he modified it a little by saying: } \\
& \text { Say I have not much love for then }
\end{aligned}
$$

As I looked around $I$ saw of at the further end of the row of cows a grade Guernsey, a fine-looking dairy replied, "'The old woman claims her. She milks her and feeds her and pets and thinks the world of her, and

The returns from barely paid for the foed they ate. Now, does anybody suppose that this man could ever succeed with a dairy
herd? the State, they would rapidly deteriorate as dairy in mals, because his breeding, selection and feeding would

## Wisconsin Jersey Breeders Commend

 Official Yearly Babcock Testing.That the Jersey Bulletin's persistent campaign
decrying the Babcock test as a means of determining the of deter does not commend itself to enterprising dairy cows breeders in the United States is shown by the fol lowing unanimous resolution passed by the Wiscent annual meeting at. Madison Whereas, the Babcock test is the recognized Standard by which the commercial value of milk with the exception of breeders of all dairy cattle cepted it as the standard by which to hadge acbutter production of cows; and
Whereas, we believe the stand taken by the Jersey Bulletin in regard to the Babceck by the we were afraid to meet the minds of many that ground, and has wrought great harin to the Jersey breed, as they have been able to hold their
own with all breeds when judgred by the test: therefore be it when judged by the Babcock cock work that has been done the official Babtests, and would advise and encouracially yearly do more of it, believing it will create breater confidence in our tests, and be the cheapest and surest

THE FARMER'S ADVOCATE
est butter cow on earth.
We are pleased to note that Jersey breeders in the the lead of the Canadian testing of cows with milk scales and Babcock
test est. Any individual association or paper which opposes the Babcock, stand in its own ligh

## Bonuses for Cold Storage at Creameries.

 griculture, to state that Parliement stend the bonus of $\$ 100$ on cold storage ot cresid 1906. onditions of payment uiment of the following conditions, viz:(1) An efficient cold storage must be built accord tions supplied, or approved by the bary Commissioner, Ottaw. tained in the cold storage temperature must be maininjury for a reasonable length protect the butter against Creamery owners desiring to take advantage of this
bonus will be required (1) To mak
forms provided for the purpose
 The construction of the cold storage will
pass inspection by an person designated to maker of the Department, or sorue of the cold storage will be determined by this repecy Inspect monthly reports of temperature. must be permitted to examine of Agriculture, Dttawa, cold storage and to make tests of construction of the The temperature of the butter in any packare which has been thrce days in the cold storage wackage whill be taken as repre
storage. storage.
Revised plans and specifcations
storages, on the ". Air Circulation
storages, on the " Air circtirculation ". system and cold
Cylinder ". systen the Cylinder " system, will be furinished on application
Some experiments in insulation were conductad the Cold Storage Division last summer, and as a ted of the information thus obtained, we are able to recom ,end a rather cheaper form of construction
been revised accordingly
on request, as far as as possible. all creameries will visit
or the bonus, for the porpose of giving assistance in
the planning and construction of the cold storage The necessary forms will be supplied. Allorage.
ratification by Pabiect to ratification by Parliament. Address all communica
tions to the Dairy Commissioner, Ottawa, Ont.

## Cream Separator Instructions

 most satisfactory method of skimming is by the use of a good hand or power separator. It willsoon pay for itself, because there will he praction ly no butter-fat left in the skim milk, a better and higher-testing quality of cream, and, consequently, of butter obtained; the cost of various saved : and, as the separating is done same aiter milking, the skim milk is allways fresh and sweet for feeding calves and pigs. It is calculated hat a separator means an increase of revenue to her milk flow. The dairyman with only fows would thus soon have his separator paid
for. As regards capacity, one of 450 pounds an hour is sufficient for 10 cows. Select one with a because, by closing the feed tap a little and run ning the separator below its capacity, it does closer skimming and produces richer cream. The that stated in the instructions furnished by the manufacturers. In tests made, an extra speed of
five revolutions a minute has caused an increas iive revolutions a minute has caused an increase
of butter-fat in the cream to the extent of six
per cent. The cream should cent. 1035 per cent., because the higher ity of the cream, the better the butter. Imme
diately after separation the can should be perature is and the cream stireed until its set in cream should not be added to separated until the new has been that previously tute Report 065 .
Note.-While the above statement about an in crease in speed of separator causing a closer skim-
ming is no doubt correct it ming is no doubt correct, it should not pass with separator bowl is enormous, and more than of a has burst, with fatal consequences, while being
run at too high a speed.-Fiditor.]

Keeping Milk Records is Work that Pays
POULTRY

## Some Things I Think.

$\qquad$ we thought there must be an individuality, or that
some cows were better than others, and we tried to set
from the exhibition frou the exhibitions somewhat of and idea which were hens.
that many a good producer was turned down to mahe
a place for ber inferior sister a place for her inferior sister. Therefore, we adopted
the scale as a means of finding the cows which were
paying their board. paying their board, also those which were boarding at
our expense. No thought is given to the question of the time which this system takes. The question is...Is
it worth doing ?" If it is, then do it like anything else on the farm. If it is, then do it like anything
it had better it had better not be done. To may a reasonable wage
great deal of labor expended mind there is a great deal of labor expended on the farm without count-
ing the cost. ing the cost. Custom has handed down practices from out our knowledge), as it were, part of us : and we mo on like machines, performing our duties in the samee
way, without a thought as to the ways. not questionWay, without a thought as to the ways, not question-
ing-merely doing-because it is part of our nature. If we, ourselves, kept an account of our work, so
that we could tell what paid and what didn't pay, there
would would be a lot left undone, and we would, naturally,
lend our energies to that which paid. The weighing and testing of paid.
number cow's milk has a

$\qquad$ casy to dispose of the unporifitable of ones. This it the
only way discovered yet of finding what each indivictual
cow is doing. By kinwing or subtract. to or frowing these things, we cannot add
on a higher plane of usefulness. We can put the herd
on semms to on a higher plane of usefulness. It seems to the to tie
the foundation of successful dairying. A system which
will give vou a knowladm on system to pursue. We have been at it for athont an
years. When we started to weigh. our hard avarnon
$\qquad$
$\qquad$
$\qquad$ em, and that
of the family.



## APIARY

## How Far do Bees Forage Profitably


 ed, giving them several hundred yard were being In a trough outside, and some little distance from
the apiary. All colonies were soon busily at
work storing it away under way, or about the second they were weyl
made to nisit was extent the bees there might be partaking in what half a mile away, was working as busily La Laws.
$\qquad$
$\qquad$
$\qquad$

## Setting a Hen.

busily at it, the whole distant also worked as
yard cngagirige in whole number of colonies in the
colonies. $1 \frac{1}{2}$ miles away, only 14 found the syru
from where the syrup was being fed, found it.
These fewt colonies workid
In the Dowd yard, but on account bof the those about as high as could he without allowing thy
syrup, they did not a loter discovery of the chicks I sometimes hatehed in this way, with
per an amo

$\qquad$
$\qquad$
$\qquad$
$\qquad$

Timely, Pointed, and Practical.

## Should we Raise More Ducks?



Eggs Bring the Money



The Sitting Hen.
 Aro many who still trust to the "old hen, This may
not be rom any sentimental motives, but such pooplo
at









too, is a great labor-saver, and should be included amongst the tools necessary for the proper
care of the vegetable garden. With these two care of the vegetable garden. sary. Of course, it should be borne in mind that increases the cost of cultivation, and, furthermore, these tools do not work well where such growth is rampant. Like the "Breed" weeder, they do satisfactory work only when the weeds
are small. The fact is, that one of the chief causes for such unsatisfactory results from the average vegetable garden is that the weeds are allowed to get too much start of the crop before is done when it should be with these two implements, one would. be surprised at the small cost of labor required to keep a garde even of this size, in perfect condition
that there is any danger misunderstood as saying for vegetables, for seldom will any vegetable pro-
duce too rampant veget duce too rampaint vegetative growth. But, on
the other hand, it is surprising what good rethe other hand, it is surprising what bood had on a moderately fertile piece of ground by giving proper attention to cultivation. It is entirely unnecessary to use hand tools in
preparing the soil for the vegetable garden, if the preparing the soil for the vegetable garden, if the
work is not done until the soil is fit to work, when it can be put into perfect tilth to the depth required in a much better manner than any hand
labor could possibly do it. labor could possibly do it. in my annual report for 1905, when Horticulturist of the Maritime Experinental Farm, as the Peas.-Tall: Extra early, Surprise ; early Thomas Laxton; medium, Admiral Dewey; late Telephone. Dwarf: Extra early, Early 'Excel sior; early, Mott's Excelsior ; medium, Riven Tomatoes.-Spark's Earliana.
Beans,-Green Pod: Early, Bountiful and Lightning; late, Refuge, or 1000 to 1. Golden Pod: Market Wax and Valentine Wax Ceep o. Day. Early : Extra Early Beverly and Premo. Medium: Crosby
Cucumbers.-White Spine.
Squash.-Autumn : Boston Marrow and Gol den Hubbard. Late : Hubbard,
Parsnips.-Hollow Crown and Improved Half-Carrots.-Chantenay or Early Gem. Onions.-Australian Brown and Prizetaker.
Lettuce.-Curled : Grand Rapids. Cabbage Cabba Salamander. Cabbage.-Extra Early : Paris Market. Early :
Jersey Wakefield. Medium : Early Spring and Succession. Late: Late Flat Dutch. Red : Mamnoth Rock Red. Celery-Paris Goldon Yollow, Silat Cauliflower.-Erfurt. Beets.-Extra-Early : Egyptian Turnip. Early: Clipse.
Radish.-French Breakfast and Icicle Parsley-Double Curled
Citron Melon.-Colorado Mammoth
Watermelon.-Cole's Early.
Eggplant.-New York
Brussels Sprouts.-Improved
Kale.-Dwarf Green Curled.
Turnips.-Golden Ball and Selected Purple-Rhubarb-
Asparagus.-Conover's Colossal and Armontit Macdonald College, Ste. Anne de Bellevue, Que

## Cultivate the Orchard

eteran fruit-grower, orchard-culture, says the mportant things in connection with successfur rchards the if you don't intend to give your rchards the cultivation they need, to keep the don't plant an orchard. You must cultivate then the food of the plant and for moisture. A wongrowth of trees and moisture is required for the between culture for three or four months choose the growth of the fruit, and a ton or a during half of fertilizer to the acre free of cost, with am as much a buyer of fertilizer as time, and

## Good Prices for Apples

The Georgian Bay Fruit Growers, Ltd.., are market. March shipments of Spy, Ben Davis youm net average in all grades of $\$ 4.55$. In Fruit Growers, Ltd., where it reads, "sharehold ers receive from 25 to 40 per cent., as to variety, per cent., or, in other words have been 25 to 400 to $\$ 5.00$ per barrel, clear of all expencom $\$ 1.25$ of our apples sold as high as $\$ 8.00$.
highest prices were $\$ 1.00$ per barrel. highest prices were $\$ 1.00$ per barrel... Buye

The Fruit and Vegetable Garden. tods, as our grandmothers
$\qquad$ the Ontario Farmers' Institute Report for 1905, is still
practiced by many. but it is tedious an operation to be desirable on the farm. While it may still be practiced to advantage in small gardens,
if the land is very flat and wet, I would not think of trying it under any other conditions. Even for the small garden, worked entirely by hand, I can see no
excuse for the small raised beds, and am convinced much better results can be obtained if level culture is practiced. No work about the farm will yield so much profit
and pleasure as that applied to the garden. Thero should always be a small spot converient to the buildings set aside
and vegetables
a place to grow all the small fruit As this will be far the most profitable spot on the furn drained and well fitted up. Select a piece that is so that it will be convenient to work with a horse Get it well tilled early in the spring, and begin plant-
ing at one side with a row of blackberries ; the Snyder
it is the best for this purpose of any variety that I hav
tried. It is smaller than some of the others, but it sweet and hardy, and will succeed where many oth
fail. Next plant a row Next plant a row of red raspberries, if you lik
them (or if the family is small, half a row might sufficient) of an early sort, the other half of a kind, so as to lengthen the season. Turner, Brandy-
wine and Marlboro are all good early sorts, while Cuty wine and Marlboro are all good early sorts, wnile Cuth-
bert is the best late variety. A few bushes of Golden Queen will produce fine large berries, like the Cuthbert only yellow in color. These are very attractive when
mixed with the red and used raw. We much prefer the black raspberries, chiefly because they are the more
wholesome. Plant two rows of these, including three Wholesome. Plant two rows of these, including three
varieties, to make a long season. Palmer for first
early, Hilborn for medium, and Greis for Next to these plant a row made up of different and, last, but not least, ene row of strawberries. For
these I prefer to mix three or fur vien hese I prefer to mix three or four varieties together,
early, medium and late sorts: this will give a better yield and a longer season. Beder Wood, Bubach, Sharp-
less and Williams are excellent sorts. would plant Captain Jack instead of Bubach.
The rows of berries should not be less than
apart, and about three and a -half feet in rows; strawwill last for eight or ten years, if properly attended to The strawberries should be replanted every two year: This is why I advise planting the patch close to the tables when necessary to replant. We always plant our vegetables beside the berry garden for convenience in cultivation, and, for the same
reason, we run the rest reason, we run the rows right through the entire length
of the garden. We plant the first two rows tables one foot apart, then allow a space of three feet for cultivation, then two more rows one foot apart another three feet space, and so on until all are
ped grow everything we want in the garden in this
way-onions, lettuce, beets, parsnips, carrots, etc. If
we do not want a full row of one kind we put two or
more in a row. Plant several rows of good garden
peas-carly, medium and late. I also grow one row
sweet potatoes, and several. rows of Irish potatoes for
early use; also a few rows of early, medium and late





of the hoe.
If the land is well fitted, you will be surprised how
quickly you can put in
quickly you can put in your garden in this way. A

hand wor



tresh vegetable
Think antso of
and
butcheres siils
or mahy years, and know whererat toot as outtion
Cout their that any family which has not in the past
yrown in this way, will be dell chted with the eresuls, it
this methotit is adopted and well carried out.
In my article on " Vegetables for the Farmer,
Conpareil and Denver Market

High or Low Heading of Fruit Trees.
Ilrish Migratory Leborers,
Hutt, Horticulturist, of the O. A. C.. Guelph, to whou
we had written for his opinion on himh
we had written for his opinion on high versus low
heading of fruit trees:
Much can be said in favor of low heads in iruit trees.
In the bulletin, Apple Culture this point is dealt with
as follows:
". Closely associated with the heading back of the
top at the initial pruning of the tree, is the determining the HEIGHT AT WHICH THF HEAD SHOULD BE FORMED. On this, as in many othe points of orchard management, there is a variety of greater convenience for cultivation and working underneath; while others prefer them low, because of the greater convenience in pruning, spraying and harvesting.
There are other reasons, however why are preferable; in exposed locations the trees and crop
are less likely to sufier are less likely to sufer from violent winds, and in
northern localities the trees, with short trunks and lowspreading branches, are much less subject to injury from
sunscald, the most serious tree trouble of the north. sunscald, the most serious tree trouble of the north.
At the Algoma Fruit Experiment Station it has been found advisable to start the head not more than a couple of feet from the ground, while in the more
favored sections the custom is to have at least four feet Tavored sections the custom is to have at least four feet
of trunk. This is the height at which the head is usuof trunk. This is the height at which the head is usu-
ally started on two- or three-year-old trees as obtained
from the nursery, and for this reason it is better for the northern planter to get two-year-old rather than three- or four-year-old trees, so that he can start the it may be stated that tree trunks do not lengthen, ex cept by pruning off the lower branches, so that at what left, that will be the permanent length of the trun left, that will be the permanent length of the trunk.
:" Three branches are enough to leave to form the
main limbs or framework of the tree top. These should be evenly spaced around the trunk, to give a wellsalanced and symmetrical top, and they should also
placed on the trunk, so as to distribute evenly
weight of the top and avoid iable to split down with weight of oftches, which ticularly important at this stage of crop. It is pat go, and mucrim can be doung tree in the way it should growth by heading back to buds pointing in the direc tion we wish the new branch to take."
Our circulars giving instructions to co-operative experimenters recommend the low heads stabout 2 feet from
the ground) for the northern districts, and leave it to the choice of the growers in the southern districts whether they adopt the high or low head. In most of
the large orchards in the Western States they have adopted the low head, not only because of the protec-
tion of the trees from sunscald, but because of the greater convenicnce in pruning, spraying and harvesting
the crop, and also less loss from windstorms. With regard to the difficulty of cultivating under the
trees, this is overcome to some extent by the use of
special cultivators. which the low-hanging branches may be worked underneath
the same necessity for cultivation, there is not

THE FARM BULLETIN.
The annual meeting of the American (iuernsey Cattle
Club will be held at the Fifth Avenue Hotel. New York
City, Wednesday, May 16 th, 1906 , at 10.30 a.m. The
year now closing will mark year now closing will mark a great gain in the Guern-
sey interests.
given 14,920 During the year one Gilk that contained 8.57 llise cow has fat, that is equivalent to 1,000 ths. buther. More en.
Iries and transfers have been recorded than in any prow
vious year. Mr. Wm vious year. Mr. Wm.
$\mathbf{H}$. is the secretary.
$\qquad$
$\qquad$ Put Your Name on the Gate.

## Don't and Do

| $\begin{aligned} & \text { itor "The Farmer's Adv } \\ & \text { As a farmer's son, and } \end{aligned}$ | $\begin{aligned} & \text { drove, or, fuhaps, walked, at least once a } \\ & \text { the place whirh hels for them the chief of all } \end{aligned}$ |
| :---: | :---: |
| able paper (which I co |  |
| mer or his son), I venture |  |
| rusarding the boy on the farm. and the hewn | he |
| this subject. by "Senecu, |  |
|  |  |
| nan's point of view, yet I think that | Quebec Bacon Hog Sales. |
| (iews your correspondent is a little too conservailio. <br> In the first place, the farmer often maknes | (Ottawa correspondence.) ment sales of bacon hog |
| very thing which he thinks will keen a mistake |  |
|  |  |
|  | to keep the eastern factories going in the future. Sixty- |
| already | were sold. ${ }^{\text {dews }}$ of the Yorkshire or Tam- |
| purpose. So the boy is sickenmd of farmins by an | Them |
| overdose right on the start, and seering brefore him the |  |
| prospect of more land and more hard lator. he is | lon. The attendance varied from 250 |
| fh, anxious to turn |  |
| st here let me say that |  |
| to stay lehind the plow. In the | 3.25. Boars sold at |
| of our country the profess | prices varying from $\$ 10$ to $\$ 25$ per head, and sows at |
| of rreatest ability | , 25 grom 105 to 350 per head. Of the 40 |
| these |  |
|  | the Department to have intro- |
|  |  |
|  |  |
|  |  |
|  | now is drawn almost entirely from ontario. |
| r west. |  |
| g man of small means than the ol | view to the delivery of lectures and other in- |
| ; and, truly, if we wish to Canatianize and |  |
| ul, law-abiding citizens of the | More Thinking Done on the Farm. |
| de | The past winter has been an exceptional one. Dur- |
| eetle among them, and show by their example | The weather has been so mild since New Year's that it |
| ect every settler | has seemed really more like spring than winter. Wheat |
| Then for the boy who remains | had a good start last fall, and if we do not get so |
| , |  |
| with such training as will best fit him for | done lust fll and seadin |
| 1 would strongly advise every boy who intends to take a course in one of our first-class amri- | done last fall, and seeding should soon commence. Oo round peas, barley and spelt are the only spring crion |
| colleges, if possible, and take the best procur- |  |
|  | years, some seasons yielding from 25 to 30 bushels |
| to suit his purpose better than "The Farmer | acre, but they were short lived, and where there used |
| ate." With such preparation, and by conce | to be twenty acres sown there is not one now. Spelt |
| nergies on his work, he should be abl | is being sown quite extensively, as it makes splendid |
| pete with his fellow farmers in a | chop when mixed with other grains. The principal |
| sing to take an honored place a | varieties of oats are the American Banner, Twentieth |
| its | Century and Australian. Other new varieties are being |
| er, a farmer's son need not necessarily be | rom time to time, but the above |
| hundred and | main sorts. No spring wheat is sown of any account. |
| e day | The idea of the general farmer at present is to do more |
| $\begin{aligned} & \text {, that, }{ }^{\text {I }} \\ & \text { d the man } \end{aligned}$ | thinking, and us |
| ughts of work and worry, becomes | g up the farm. Cattl |
| The man behind the hoe," stupid | vely than a fer |
| er to the ox, which no man should | re shipped |
| As regards the class of boys who desire to continu- | ret |
|  |  |
|  |  |
|  |  |
| $t$ their alilititics better than the strads | $\text { coln } \cos _{0} \text { on }$ |

Editor "The Farmer's Advocate":
would like to write a few pointers for the help o young farmers starting in life. I have had 30 years experience, and 12 years on the farm before that. enjoy being out of debt, and not without a large family so happy as it is.
feally buying your farm, buy only these things that really need. Do not go in debt to build et a few rolls of tar paper and some second-class lum $r$ and shingle nails to line them up in the inside, and cattle, pigs or fowl, as well as for horses
Don't sign your name to any paper at all, without Don't try and advice any new thing only on a smal scale. Better a little at a profit than much at a loss.
Don't try to do too much, Don't try to do too much, as the result will be as Don't stay around the shop or store any longer than
you have to, else your cattle, horses and pigs will be looking for their dinner or supper
Don't wait till you want that plow or harrow, or any other implement, before you have it in perfect work-
Don't wait till you want the seed; have it all ready in the bags to sow.
Ion't trade, but sell and buy.
When you have an animal ready to sell, get all you prices. it , but it don't often pay to wait for higher Don't work your wife or children to make money for Don't linger too long about thy neighbor's house lest they or your dear wife will be weary.

$$
\begin{aligned}
& \text { Don't lose your temper when everything seems to } \\
& \text { Do against you. We all have troubles. }
\end{aligned}
$$

Don't start out in winter on a journey, either alone or with your wife, without heating the feed of oats that you take in a pan in the oven good and hot. Pats
them in the bag; lay them on a blanket, and they will them in the bag, lay them on a blanket, and they will keep the feet warm for twenty miles, and then be warm
for the horses. Also bring the cushion in the night before and wan An Don't skimp yourself of wholesome board, and go
thinly clad, then pay the doctor a big bill next fall. I enjoy your paper very much. If I had fall.


## Enforcing the Fruit Marks Act

## tions under the Fruit reports the following prosecu-

 Geo. Vipond, of Montreal, pas convicted, Aprit 10th, of violating section 6 of the Fruit Marks Act Geo. A. Aulseybrook, of Bürford Ontarion victed, April 14th 14 , of Búrford, Ontario, was cen and for this offence was fined $\$ 1.00$ per fruit '/ No. 1, apples were examined by Mr. J. J. Philp, DominionFruit Inspector, sion has a large in Sault Ste. Marie. The Fruit Division has a large number of complaints of violations of
the Fruit Marks Act in that that the absence of a fruit inspector in that district accounts for the fact that a poorer sample of apples has been sent there, apparently, than to places likely
to be visited by

| MARKETS. | 1.200 | nackers should be quoting $\$ 7.25$ to | turkey gobblers, hens, 18 c. to 22 c. |
| :---: | :---: | :---: | :---: |
| Toronto. |  |  | cotatess |
|  | best stockers, 500 to 700 lbs , at $\$ 3.50$ to $\$ 3.65:$ common stockers, 400 to 600 | There was n good trate in | 隹 |
|  | $i$ |  |  |
|  | Spriners has not heen ,rish, owing to a |  |  |
|  |  |  |  |
|  | "hich cost. on on anerage, sso eath. |  |  |
|  |  |  | E |
|  | ${ }_{\text {der }}^{10} 8$ | $\underbrace{\text { atener }}$ |  |
| wing bought liberally for the Easte |  |  |  |
|  |  | ${ }^{8: 0}$ | $\substack{\text { asem } \\ \text { dor }}$ |
|  |  | atry product. |  |
|  | rrice |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| $\begin{aligned} & \text { ders hi } \\ & \text { deman } \\ & \text { short } \end{aligned}$ | s7. |  |  |
|  |  | Poultry-Poultry |  |

THE FARMER'S ADVOCATE

$\overline{\text { bags, on track at Toronto, } \$ 21 \text { per ton }}$ SEEDS.
The following are dealers' selling
prives to farmers for seding purposes:
Alsike, No. 1, per bushel, $\$ 7$ to $\$ 9$;
alsike, No. 2, per bushel, $\$ 5.50$ to
$\$ 6.50 ;$ rod, choice, No. 1, per bushel,
$\$ 7.50$ to $\$ 9.30$ timothy , $\mathbf{\$ 7 . 5 0}$ to $\$ 9.30$; timothy flail-threshed
$\$ 2$ to $\$ 2.40$. E. T. Carter \& Co., wholesale dealers
in wool, etc., have been paying: In-
apected hides, No. 1 steers, 11c.: inspected hides, No. 1 steers, 11 c .;
spected hides. No. 2, steers, 10c.;
spected hides. spected hides, No. 1 cows. 103c. ; ;
spected hides, No. 2 cows, 9 9.c. ; cour hides, flat, 8ikc.; call skins, No. 1, cit
14c.; calf skins. country, 13c. ; she
sking, $\$ 1.45$ to $\$ 1.65$; horse hides, $\$ 3$.



## THE CANADIAN BANK OF COMMERCE

Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,500,000$
HEAD OFFICE, TORONTO
8. E. WALKER, General Manager $\qquad$ ALEX. LAIRD, Asst. Gen'1 Manageo BRANCHES THROUGHOUT CANADA, AND IN THE UNITED STATES AND ENGLAND
A general Banking business transacted. Accounts may be opened and conductod by
SAVINGS BANK DEPARTMENT
Deposits of $\$ 1$ and upwards received, and interest allowed at current rates. The depositor is subject to no delay what bortion of the deposit

## Contents of this Issue.


 and equation.


Charlotte Bronte (Currer Bell)
 right direction, un unardsolled in the 100 years
ago, you might have come to a spot in West York, England, where, leav ing the more sequestered vereses and
tree-covered slopes of kinder Britan nia, you came to the bleak moors of the Northern country, marked, even
then, by the villages of the manufacturing people, and the bare, un-
sightly
walls of the woollen mills, scattered, with a practical disregard
of the artistic, over the stubbord Northern wolds. over the stubborn
the wild heat, too, when and the sky purple and gold with
sunset, you might have tho sunset, you might have thought this
moorland country beautiful. Had your home been there you might have In the very midst of the bare land old square, massive-looking house,
onshated hy tree or in those days was neither a pleasing nor, despite its fine airs, a beautiful abruptly up and up a a very steep
hill, along which the houses clung as if by tooth and nail. At the very
o, stood the church. with a grave
fard literally paved with heside the church stoond the old house ane reierred to. On two sides of
the little, treeless garden-plot about
the houso hut beyond that. "up above the



When she appeared in the school-
room her dress was changed, but just room her dress was changed, but jus
as old. She looked a little old
woman woman, so short-sighted that she always appeared to be seeking some-
thing, and moving her head from side to side to catch a sight of it spoke with a strong Irish accent dropped her head over it until she nose nearly touched it, and when she was told to hold her head up, up her nose, so that it was not possible during her laughing." Nevertheless, school, as pupil, and then as in teachis the shy, clever, short-sighted to love girl, and to give her the friendship, not only of a period, but of a lifetime. Emily, too, tried going to for Emily, '" that free, wild, untamable spirit, never happy nor well but on the sweeping moors that gathered round her home-that hater
of strangers, doomed to live amongst them, and not merely to live, but to
slave, in their service "no place but Haworth, and to Haworth, accordingly, she returned. After leaving Roe Head, Charlotte
spent some time as a governess, thy coming into contact with some of those women, narrow-minded, shallow, though gifted with wealth and
position, whom she has since scon po mercilessly in her books. A ribly homesick time this was for the
girl. "I could like to be at home," she writes. "I could like to work in a mill. I could like to feel some
mental liberty." And yet she was obliged, at every spare minute, to
busv herself with space busy herself with "oceans of needle
work, yards of cambric to hem work, yards of cambric to hem, mus
lin nightcaps to make, dolls to dress," "I "sed to think," she writes, foik's I should like to be in had enough of it." Dut 1 hav Charlotte Bronte was seeing lifethe inner as well as the outer of it She was, if unconsciously, gathering.
material for the "Jane Eyre, "Shirley" and "Vilette" of the
Weary of the life, she returned again to Haworth, and, under the
necessity of making money in some way, the thren sisters began to form plans for starting a school of their own. Fceling in need of further
learning before setting the learning before setting the profect
afoot, Charlotte and Emily resolved to go to the Continent. Finally accordingly, they spent some there here study, Charlotte afterwards remain ing a term or two as teacher of Eng-
lish. To the friendship which was here formed bet ween the young teach-
er and $\mathbf{M}$. Heger, the princinal fat er and M. Heger, the principal of the
school, those who would turn the limelight into the very heart and soul of those who have achieved, have professed to discover, upon the
part or Miss Bronte, an unhappy and lart of Miss Bronte, an unhappy and
monreguited love Megarding this,
however, Mrs. Gaskell, in her exhaustive :" Lifife of Charlotte Bronte,",
says mot a word, and it is to he pro savs not a word, and it is to be pre-
sumed that the story of a natural
friendship has been grossly exaguer
$\qquad$
$\qquad$

Probably each was conscious of the possession of a talent which mus
find the ear of the world. At all events, Charlotte at last wrote to Southey regarding the advisability of a literary career for women. The
long-delayed answer, if kind, was long-delayed answer, if kind, was be the business of a woman's life,' wrote the poet, "" and it ought not over, to " keep a quiet mind." Subse quently she wrote to Wordsworth with little better encouragement. But the brave hearts were hard to kill, and we read of the three, in the face and down the little parlor at Haworth, when night came and the room was lighted only by the fire from the
grate, with arms about one another discussing the plans of their future Charlotte's first book, fessor," found no open, The Provery face of its Nevertheless, in the too, of peculiar trial, when she had who to Manchester with her father, she began ". Jataract, cepted at once, as were also " Wuthering Heights" and "Agnes Grey," by Emily and Anne, and soon all England, and America, too, were in
a ferment to know who were these three "brothers," -" Currer," " Ellis " and "Acton Bell," whose popularity. Of the three, marvellous Currer Bell (Charlotte) was most called ior. Jane Eyre" was slashed, hacked, riddled by the
critics, yet it would persist in ". ing," and publishers would persist in calling for more by the same facile Charlotte Bronte never wrote such another book. In her next, " Shir deal set up by these critics. Her convene became beautiful and more rather startling "Jane plain, and her work lost in strength. "Vilette appealed more to the artistic literwas model than either, yet it never people. In our day we can the paults in "Jane Eyre." Its some to modern ideas of ease not conform Its characters often talk in lith ature years and solemnity beyond their not so and we Wish the writer had populan affectation to the then rench. Nevertheless, we find in recognize in made Haworth a Mecca, not which the casual sightseer, but of the liter Charlotte Bronte's day and Haworth, however, had become unexpressibly lonely to Miss Bronte following him, Emily and Anne, of left, broken in hoalth was now in the little parlor. Thut watk alone Indging because of her azed father Messis. Donne her description of the Tone, and the hard. and Ma love Rivers, the writer cold St. theless, in 1854 as a class. had little a Mr. Nichols. a curate of mer foried a Mr. Nichols. a curate of her fath-
married life, though happy, was short. Before the year was out
she slipped as quietly over the great dim bourne. Charlotte Bronte was

## The Record of Vesuvius.

## The recent eruption of Vesuvius

has given a new interest to the past
record of Italy's great volcano, and at this time, the following, as compiled by the New York Sun, may be interesting. The Prof. Mattucci re-
ferred to is the same who has held his post at the Observatory during the recent time of terror with such indomitable perseverance and bravFor
been almost constantly in eruption coming out of a long sleep on Sep-
tember 7,1902 , at a time when all tember 7,1902 , at a time when all
the volcanoes of the world, both the volcanoes of the world, both
those known to be living and those reported dead, seemed to start into simultaneous activity. It was in erupted and destroyed St. Pierre Martinique.
As early as 1901, Prof. Mattucci, warned the Italian Government that the volcano was awakening from its long sleep, and that a break might be expected at any time. The ac-
tivity which started again in tember, 1902, has continued, with intervals of quiet, until the present eruption, which is said to be th most violent for many years.
This is the record of Vesuviu
In 63 A . D., during the rei Nero, the volcanic nature of Mount
lesuvius first manifested its Nero, the voicanic nature of Mount
Vesuvius first manifested itself in a
series of earthquakes, which destroyseries of earthquakes, which destroy-
ed much property and damaged villas ed much property and damaged villas
at Pompeii and Herculaneum. In 64 A. D., an eruption and earthquake damaged Naples, and On Auggust 24,79 , in the reign of most appalling fury, overwhelming other villages of the Stabiae an Vesuvius went into a sleep of 124 years, and let go in the year 203 us. In the year 472 an eruption took place which was so violent that stories were told of ashes being car ried as far as Constantinople. Be
tween 472 and 1500 nine eruptions are recorded.
Vesuvius slept again from 1500 t 1631. On December 16 of the latter year a terrible outbreak of
lava occurred.
Huge clouds smoke and ashes cast a gloom over Nuples in the middle of the day, and extended with remarkable rapidity far as Tarentum. The earth was convulsed by violent earthquakes and seven streams of lava poured
from the crater, overwhelmine Torre Annunziata Torre del Brec Resina and Portici. At least 3,00 persons lost their lives. a violent nature which lasted nearls (u) months, and covered Naples wit
dense showers of ashes, greatly terrifying the citizens.
There were eruptions in 1737 1760 and 1767 , in which streams of lava poured from the crater, and
showers of ashes descended on Por tici, and even reached Naples.
In August, 1779 , the outburs In August, 1779 , the outburst
the volcano was so violent that red
hot stones were thrown 2.000 in the air, and the country was cov ered with ashes and mud. The were carried many miles. Eruptions occurred in 1804, 1805
1822,1850 and 1855 other, in 1858 , the crater sank about 195 feet below its former elevation. December 8,1861 , an outbreak oc-
curred which devastated Torre del Greco. Whas a period of quipscence but the volcano became active once ion culminated on April 26,1872 suldenly irom the mountain as to


Palace Hotel, San Francisco, California.

Confidence in the Home
 than the air, yet stronger than iron. the bitterness and heartache that sult when suspicion and distrust sult when suspicion and distrust
their corroding work in the hom

News of the Day.

## the convulsion at san fran

Perhaps never in the history
Corth America was known suc terrifying convulsion of Nature that which, on April 18th, devastat On the preceding evening the su had set on one of the fairest citie extremily wemmisula with the beautiful waters of the bay and the Gate leading eut of the Golden the one hand upon the occan upon peaceful hills rising everywhere, th.
intervening space filled with hand some residences, parks gay with th Wheauty of California flor
crowded business thoroughfares terspersed with buildings such a those shown in our illustrations-
seemed that San Francisco was sur ly one of earth's chosen places. and hen, before sunrise, in the gray sudden and terrible upheaval, beg garing imagination to follow. Fd have seemed like so many ages-the earth heaving and cracking; subter ranean hoises; buldings reeling the shrieks of terrified the ground groans of the injured.
And yet And yet, perhaps, the full horror
was still to be realized. Before an hour, fires bursting forth everywher down often upon human beings im timbers ; people searching madly for relatives, besieging the telegraph oi fices and the banks, which shut thri doors upon them, or hurrying dis sands sat huddled beside such house hold effiects as they could cary with them, looking down upon the awful
conllagration mow ragine folow The conllagration now raging below. The
roar of the flames could even there he distinctly heard, and ever and
anoll came the heary shock of a
dynamite cxplosion, as building after huilding, in a vain, eftort to stay the
dames-for th. broken-was bown up.
Those who ventured with the pre-
cincts of the doomed wity hune tont too, of revolting horrors only to he
sem at chose quarters-of thicves,
prowling among the dead and inte
the deserted homes, gloating over the catastrophe that had thrown over the
them the to "ann. amel moly to he stoppecl when wriwed to shoot down all thieves
"ibhout quarter
Ancl in almost And in almost wory town within
a radius of 60 miles if San Francis-
on a sommen hat cimilar ton ville. Holsterir Manta Rosa, Watson1t hates1 moneriy all lises were lost roll hat hemp but at seweral hundreds may to. som. State although - collateretine to mote thate
 at 51.3 a in In Ottawa, the
 friend till you have natuo Wate uif for better or for what hom. thenthen and the crupbe your grocer,
doctor or your hirm

April 26， 1966
While the Suparintumpmte of the ear thquake was qulunce of the mistochaviot However it may be，scientists w．．．
proviled with a now impow ins star＊＊

British and Foreign
 Vice－l＇res．Gomez．＊ Several Americans are taking par
in the Olympic Games at Alliens Four hundred thousand coal minner
have been on strike in Pennswl ambit
 d，een lost．
It is，perhaps，necessary，to correr
a mistake in last week＇s issur． a mistake in last weres issue，
which it wns stated that Prof Mal
oucci，the now farmous scientitist，will
 time during
tion of $M \mathrm{At}$ ． oif fact，terre
prot．Perr
Iomestics，never once the and til streanmotory，even at the worst，when could be seen issuing fom the giant jaws of the volcano， anl huge pieces oi rock were bent．
hulled 2，500 feet from the crator rom view hy the inky wolumes iof
 luht，and cut by the flashes of light ning Which
There seems to be something in the Which stecis them to the sticking point in just such calamities as this
Another instance has been afforded V the telegraph operators of Sal
Vancisco，who，at imminent risk of their lives，stuck to their posts untll further work was impossible because
of the destruction of the wires．The pherators of the Postal Telegraph Co．Opposite the＇ralate Hotel，re－ iom dynamits axylocion dangel then proceredery to Oakland，across
the bay，and tookk poossession of the

The Sin of Worrying．
$\qquad$ hey add the burdens of the present：
hon they look ahoad，and anticipate
i great manx mori＂triuls than they vill evar experience in the future．－


Union Square，San Francisco．

THE FARMER＇S ADVOCATE

## How to Open a Book．

## Here are a wel－known booksers

 directions for opening a new book ＂Hold the book with its hack on mooth or covered tabi，lit the front board down，then the other，holding the leaves in one hand，while you open a fev laves at the back，then an lew at the on，and so on，atternately opening back ad front，gently pressing open the sec volume．Do the tho or the will obtain the best results
or open the volume violently or care break the canse a y break the back and cate back of the
ook． mer of mine，who thought he knew per－ ectly how to handle books，came into my fust brought from the bindery ready to be sent home；he，before my eyes，took hold of the volume，and，tightly holding the leaves in each hand，instead of al－ lowing them free play，violeatly opened
it in the center，and exclaimed：How beautifully your bindings open
．I almost fainted．He had broken he back of the volume，and it had to be

## Facial Expression．

A man＇s occupation or condition has good deal to do with making his facial expression．Intelleetual pursuits，lik ，with tent prosion，when abits of life brighter the and woral a person a superior look．Ae and nature or love of studies will manimity right，glad face ：but，cor the man may have a face that please anybody，because of a love of selt o the exclusion of all others，notwith standing his learning and worldly shrewd hess．Soldiers get a hard，severe look ired ；reporters look inquisitive loo maticians look studious．Judges，be come grave，even when off the bench he man who has had domestic troubles ludicrous side of this subject is to see a hird－class lawyer stalking around a police court looking wise as an owl．The business makes the face，I say．There is he butcher＇s face，the saloon－keeper＇ face，the beggar＇s face，the ministerial all so distinct each from the other and singly，that one seldom fails to recog nize those callings showing through the nize a genuine farmer on the street as ： farmer the moment he sees him ？－［The


Cliff House，San Francisco．

About the House.

## Article No. 3-Meats.

 Last week (Continued.)with the dealt particularly
roasting and boiling with the roasting and boiling of
meat. This week we propose to deal
briell. meat. This week we propose to deal
briefly with steaks, soups, stews,
etc. It is, for a great many people, a
very difficult task to have beefsteak Very difficult task to have beefsteak
just as tender and juicy as desired.
Usually the fault is that the tire is Usually the fault is that the fire is
not hot enough. The steak "siz
zles." the juice bor zles," the juice boils out, and the re mass, instead of the rich brown article, deliciously juicy, with tints
of rich pink in its depths. Occasionally, too, steak is fried to death,
browned througho a chip, and scarcely more digestible Just here it may be noted that a taste should be cultivated for rather a
rare beefsteak, which is much mor rare beefsteak, which is much more
nutritious and much more easily di-
gested than the well gested than the well-cooked article.
Beefsteak should always be cut in Beefsteak should always be cut in
rather thick slices, then pounded well rather thick slices, then pounded well
across the cut ends, to break up the
long fibres, so that the gastric juices locross fibres, so that the break up the
may more readily juices may more readily reach them in the
stomach. One authority states that the necessary tenderness may be ob-
tained by soaking the steak $1 \frac{1}{2}$ hours
before tained by soaking the steak $1 \frac{1}{2}$ hours
before cooking in olive oil, but this. possibly, is not a plan which will be readily adopted by people who are
obliged to economize. Having wiped and pounded the
meat, then, it may be either broiled or fried. To accomplish the former,
have a good fire of clear have a good fire of clear coals, place
the meat in a broiler (a wire toaster will do). Sear on one side, then on the other, as quickly as possible, so that none of the juices may escape,
then continue to turn frequently til cooked. According as each iect
ts
is broind is broiled, place on a hot frying-pan, season with salt, pepper and butte
and serve as quickly as possible and serve as quickly as possible
To fry steak, have the pan hot, either dry have the pan very " swimming ", with fat. "Toss the
steak on and sear well steak on and sear well on each side
then cook VERY QUICKLY unti then cook VERY QUICKLY until
brown on the outside. Season and In making STEWS. In making stews, the meat should always be cut into small bits and
thoroughly browned, along with juicy vegetables that along with any e.g., onions. Next, the flour, and browned. Then the water should be put on, sliced potato water should alded on, sliced potato, carrot etc.

THE FARMER'S ADVOCATE.

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|  |  | The deficiency is, of course, due to

the excessive proportion of water
For this reason, it will be not only very easily digested
exceedingly humritious. Mutton pecially if fat, is me general
sidered as digestible us beef is quite hard to digest. Brum. le chicken and game, sweetbreat and tripe, are all very easy of digmand and quite valuable foods. Kidney
and liver are not very readily gested, except when well readily, di-
minced very finely minced very finely before cooking. In
all cases, they must not be fatin a quantity of fat. Fat, fried in valuable as a source of heat and energy, when aken in moderate and bad for the digestive orpans, very cially when cooked at a vergans, ospintemperature. In winter it may bery ased more treely than in summer. of meat, as well as to the the pasta We hope, soon, to give a number of ways of cooking the "iffer nt
species of meats which may : ford a

The Metamorphosis of an Old Brass Kettle.
 hess than an old brass kettle, which sirving-and. yes, phrhaps, wivineyour grandmother sor or mine. With
new feet and graceiul hancles of
brass, with its der brass, with its dult old sides polishect
to a glittering brifhtness to a glittering brightness, it has as the chrysalis that burst forth as
a butterfly from the gray hom To comen. down to the prosaic fact, these kettle iardinieres are be-
coming very popular. We were told
hy a a summer, that she saw thameh last where, even in our Faw them every-
cities, sometimes in racidencesadian times, sometimes in residences, somicoceasionally, the "Wre "put wher,"
at the modest litule price of $\$ 3$, ", that these old hettlu it is considered
bought up, in tho turming probably ies for 7 in cents or a dollar, the along "aming to kone one comes
and you have
any cold lrass kuttles lying around.". You may be rasonably sure that the
sly buyer is omly after your Alad-
din's lamp


An Old Brass Kettle.

The Quiet Hour.
The Bondage of Sin.
Jesus answe:ed them, Verily, verily, ${ }^{1}$
say unto you, Whosoever committeth sin
is the servant of sin. - St. John $8: 34$


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## Glengarry School

 Days.


 to come down to celebrate therr vic-
tory
Good for sou, mother.



 Wish they $y^{\text {d d }}$ d pass somane this way...
 since the revival had taken a totul-
abbsinencee pledge, althoubh this was




to him, and we'll play deeiense till

 of the ball, apparent upon the drop
the master had for be what
thetold.
arn
were bitterly chagrined. They had
come so near it, and yet had failed.
Jimmie Ben was especially savage He came down the ice toward the center, yelling defiance and threats of
vengeance. "Come on here ! Don't waste time. Let us at them. We'll knock them clear off the ice."
It was Dan's drop. As he was preparing to face off, the master skated up and asked the umpire for
time. At once the crowd gathered round. "What's the matter ?" "/ What's up "" "What do you want ?" came
on all sides from the Front team, now thoroughly aroused and thirsting for vengeance. ${ }^{\text {a }}$ Mr. Umpire," said the master "I want to call your attention to a bit of foul play that must not be allowed to go on." And then he de-
scribed Jimmie Ben's furious attack son Hughie. "It was a deliberate trip, as well
as a savage swipe at a man's shins when the ball was not near."
At once Jimmie Ben gave him the lie, and throwing down his club, slammed his cap upon the ice, and proceeded to execute a war dance
about it. For a few moments there was a
great uproar, and then the master's voice was heard again addressing the
umpire. "I want to know your ruling upon
this, Mr. Unipire," and somehow his voice commanded perfect stillness.
an well." said the
$\qquad$
$\qquad$ tripping. And of course-swiping at a man's shins is not allowed, al-
though, sometimes-it can't very well be helped in a scrimmage
"I merely want to call your atten-
tion to it," said the master. "M My tion to it," said the master. "M
understanding of our arrangements understanding of our arrangements
Mr. Munro," he said, addressing the Mr. Munro,' he said, addressing the
Iront captain, " is that we are here
to play shinny You have to play shinny. You have come up
here, 1 believe, to win the game by here, I believe, to win the game by
playing shinny, and we are here to prevent you. If you have any other purpose, or if any of your men have
any other purpose, we would be glad any other purpose, we would be glad
to know it now, for we entered this to know it now, for we entered this
game with the intention of playing
strairht cloan shin game with the intention of playing
straight, clean shinny.". R'That's right!'" called out Hee Ross, "" that's what we're here for."'
And his answer was echoed on every
side, except by Jimmie Ben, who side. except by Jimmie Ben, who
continued to bluster and offer fight.
"Oh, shut your gab!", finally said "arqu, shut your gab! !" finally said
Farquar Bheg, impatiently. "If
vou want you want to fight, wait till after the
Strong indeed is the foe, but God is
far stronger-and so are we if we hold
fast to Him. Those who draw nigh to
Cod will find to their joy that He has
in very truth drawn night to them; and
those who, in His strength, resist the
will surely find that he can be
devil,
overcome.
to
the God makes for us chances to fight-
that we may win."
Hope.
nature, but with infinite impudence, $t$ once there was a general laugh at Jimmie Ben's expense, who, with a growl, seized his cap, and putting
it on his head, skated off to his place. his men together for a moghie, calling his crowd them hard, and let's. "live the master every chance we can." "
"No," said the master, "they are waiting for me. Suppose you leave and play your forward combination They are not paying so much attention to you. Make the attack from

At the drop Dan secured the ball and, followed by Fusie, flew up the center with one of the Red's on either hand. Immediately the master
crossed to meet him, checked him crossed to meet him, checked him
hard, and gave Fusie a chance, who seizing the ball, passed far up to Hughie on the right
Immediately the Twentieth forward line rushed, and by a beautiful bit directly before the Frought goal, when Don, holding it for a moment till Hughie charged in upon Farquhar
Bheg, shot, and scored. Bheg, shot, and scored
The result of their c
once inspired the Twentieth team with fresh confidence, and proved most disconcerting to their oppon-
". That's the game, boys," said "the master, delightedly. "Keep, youn so well did the forward line respond that for the next ten minutes the tacks upon the it not been for the dashing play of their captain, and the heavy checking of the Front defense, the result ould have been most disastrous to
$\qquad$ , lined along either edge, bupport more and more vociferous as they beting the game well into their own hands. That steady, cool, systematic play of man to man was some-
thing quite new to those to ${ }^{\text {ang quite new to those accustomed }}$ the old style of the game, aroused the greatest enthusiasm Gradually the Front were forced to fall back into their territory, and to
play upon the defensive, while the master and Johnnie Big Duncan moving up toward the center, kept ported, and checked so strongly supattempts to break through any attempts to break through, that
thick and fast the shots fell upon the enemy's goal. to play. The hardy fifteen minutes ning to tell upon the big men, and the inevitable reaction following their

## THE FARMER'S ADVOCATE

itself in their stale and spiritles
play. On the other hand tieth were as fresh as ever Twen pressed the game with greater spirit "Play out toward the side," urged Dan, despairing of victory, but de-
termined to avert defer every opportunity the beat, and at knocked out of play. But like wolves the Twentieth forwards were play, and steadily forcing it toward the enemy's goal.
Dan became des wan became desperate. He was wet coming in hard gasps. He looked at his team. The little Reds were fit anough, but the others were jaded immie Ben, savage, wet and weary At one of the pauses, when the ball was out of play, Dan dropped on his "Hold on there a minute," he
cried ; "1 want to fix this skate of $\underset{\text { Very deliberety }}{\text { mine." }}$ strap, readjusted his skate, and began slowly to set the strap in place
again. again

## Ingle Nook Chats.

Aunt Patsy's Meat Pie-Chocolate Cak Dear Dame Durden,-Here is another so very thank Aunt Patsy for her meat-pie recipe. tell us how she makes her puff-pie past think there are a good many "Totits" crust. I was just thinking to-day that our ear Dame Durden must require a great everybody, and she certainly deserves redi
I worder can someone tell me how to
fry beffsteak so as it will be nice and
lender. I' have tried nice tender beef several times, and it would always be
tough. I have not noticed a recipe for choco-
late cake in your columns, so will mine, which I ithink is very good, and mine, which I think is very good, and
it may be a benefit to someone.
Five cents' worth of baking chocolate. Five cents' worth of baking chocolate,
${ }_{1}^{2} \frac{1}{2}$ cups raw sugar, yolks of 2 eggs, $\frac{1}{2}$ cup butter, $\frac{?}{\text { cup sieet milk, } 2} 2$ cups
four, with 1 teaspoon soda and 1 of vanilla.
Grate
Put yolks of eggs in that, also dish. Put yolks of eggs in that, also cup
sweet milk.
Cook on the stove until it thickens; then take off, and add butter
and rest of the milk. Mix will, and add and rest of the milk. Mix wall, and add
the. rest. Bake in layers. makes a nirar, mixe icing.
all offended if this letter ill not he at all offended if this letter is laid aside
for one of more importance.
MOTHER'S HELP. Grey Co.. Ont.
A good method for cooking beeisteak
will be found in this issue in will be found in this is sue in "About the
House." I think you must be a jewel of

## Cider Vinegar


barrel with some mother vinegar.

They want a rest, I guess, Bet ter take off the time, umpire," sang
out Fusie, dancing as lively as a
cricket around cricket around Jimmie Ben, who
looked as if he would like him bodily.
". Shut up, Fusie !" said Hughie. "We've got all the time we need." Ben, savagely. ch ?" said Jimmie " "Yes," said Hughie, in sudden anger, for he had not forgotten Jim.
mie ben's cruel swipe. need any more time than we ve got, and we don't need to play we ve got,
tricks, either. We're dirty tricks, either. We're going to beat
you. We've got you beaten ont "u. We've got you beaten now." you! I'll show you!"' said Jimmie Wait
Ben. "" You can't scare me, Jimmie You, tried your west and rage. "uldn't do it.,", blay and you master, in a gawe, Hughie," said the him, while Hec Ross skaid, good-naturedly, "A Shut up, Jimmie Ben hou'll, need all your wind for your heels," at which all but Jimmie Be la
laughed.
"Our only chance," he said, "i is
in a rush. Now, I want every man to make for that goal. Never mind And then you, Jimmie Ben, and a
couple of you centers, make right couple of you centers, make right
back here on guard." Hughie to his team. to "rush," son't all goid back. Centers fall back with me. You forwards keep up."
At the Drop Dan secured the ball and in a moment the Front rush came. With a simultaneous yell the whole ten men came roaring down the ice, waving their clubs and fling-
ing aside their lightweight opponents It was a dangerous moment, but with a cry of "AAl steady, boys! ", Hughie threw himself right into Dan's
way. But just for such a chance Jiminie But just for such a chance ing upon Hughie, caught him fairly with his shoulder and hurled him to swept over him. the attacking line For a single moment Hughie la dazed, but before any one could offer
help he rose slowly, and, after a fell

There was a wild five m in iront oi the Twentien were mg, shoving, yelling, the goat, mrik of the Front defense forcing the whit if the the goal. In the conter 1) incan and Don, fighting Johnie Big hehind few moments Hughie hy inch lack his goal, his heart full black rage, waiting his chance. Bength he saw an opening. Jinming heavily, injury to himself or any others of diged the ball toward the Twentieth reckless Taking a short run, Hughie. eckless of consequences, launched himself head-first into Jimmie Ben's
stomach, swiping viciously same time at the ball. For a moment Jimmie Ben was flung back. and but for Johnnie Big Duncan regain his feet, the ball was set could the scrimmage and away. Fusie had gone scuttling down it up and ad gone scuttling down the ice, fol lowed by Hughie and the

Macaroni-Charlotte Russe - Rhubar b Would you please give me, through your
columns, the following recipes : Macaroni
chesse, Charlotte Russe, rhubarb wine,
also a good recipe for

Raising Money for Church.
columns, the following recipes: Macaroni
chese, Charlotte Russe, rhubarb wine,
also a good recipe for pancakes?
Smith's Falls, Ont.
$\qquad$
the ham may be omitted, if preferred
Half cheese, a a pound ham, 2 ounces grated
little onion and
parsley, and some boiled macaroni, pepper and salt.
Grease a mould. Chop onion and
parsley, Grease a mould. Chop onion and
parsley, grate cheese, chop ham. Put
some materen some macaroni at bottom of mould. Put
little hen pepper and salt. cheese, parsley, onion,
Repeat this until the pepper and salt. Repeat this until the
nould is full. Then whip up three egres
with with half cup (or more) of sweet milk.
Pour in and and Pour in, and steam one hour. Turn out,
and serve with a little tomato saue. poured round.
Pancakes -Pancakes.-(1) One quart sweet milk,
Add crumbs to mahe a thin batter. eggs (beaten), mahe a thin batter, 3 tithes into asked for. "Bring ye all the spoons flour. Mix, and fry by spole be meat in mine house, and prove merewith, saith the
fuls fuls on a hot, well-greas ${ }^{2}$ d griddle. (2) (2) if will not open the windows of hosts,
Two cups flour, teaspoon sod, $\frac{1}{1}$ teaspoon sult, teaspeon level baking
powder, 2 cups sourr (thici, powder, 2 cups sour (thich) milk.-From -Mal. $3: 10$, 10 , enough to reiceive it.,
Boston Cooking Schot

 Ciqour. Boil again. Fut if ctrainect
keg: cover the opening with cheor
cloth, Cloth, and set in a warm which cutheese
mentation ceases; then bottle, seal, and havine social watherines andd very hampy
timess toger her, but het us bo careful
we raise we raise money for (iochls House.ul Fear
ing I have written at too treat len th I
will thank you all fur
$\qquad$

Stains in Clothing
Stains in Clothing
atle"
tanstand biling in a lwass
SI BSCRIBER
A New Canadian Friend. ear Dame Durden,-1 have
a reader of your ten,-I have longe been
All,-I have been enjoying the Ingle Nook
chats so much that I would like to
little if
Why ! they acted as that veritable 'touch ..... of nature", which stirs up our kinship in
such a general way, you know, and our
cousins from ". over ihe border.." heardthe call, and furnished their per "heardthe call, and furnighed their quota, and
even our friend, Wingham,twok notice.". Wingham, sat up and1 have wanted to write for some time
but I really felt it would not be quitBanbury tart in my hand-could bringport, you know, and certain sure a passthat I hnew of nothing of a Banburnature (tretty name, too, is it not?sing. And if I arttempted to conjure toa recipe different to the variety alreadyn, I fear it would tax the skill of thewill understand my reason when So youwerred understand my reason when 1 in-indly sayy what shin the Would someonethought of as a practical seen or evensomathing rountry imll fair?
gencral, and the farmer women ." in
Monstrations of hooking had iractical
hey were excellopmt. lout and and
apptable. A diantent will be most ac-
y, or if your idea has never beentried your
Cream Puifís.
Inlych, and "ould thave the crean
hwlp the tre much obligend左
-e Nomber.
Farmer's Adrocatco for oner thre.
Farmer's Adrocatco for oner thre. Farmer's Advocate" for wer thre.
yeari. We wore dulighteid with the
Iotters the Alberta Nurse wit in, and the
answers.
answers. 1 d
of them.
tins.them. Me.sn, can :anyone vine me atRecipes.
Histinng sour Inaking Nohnnycate? A Good Suggestion
cked over the hole to keep out
Hlies. Not good in less than
nths. Try it, it will mahe
This recipe alone
an Farmer's Ado-large cup corn meal, 1 small cup. Hour,
t cup sugar. 2 engs, 2 teaspoons bahing
powder, 3 tallespoonsmowder, 3 tallespoons molted buther, 11
teaspoon salt, milk to make a thin liat.


A Lover's Tale.
 I thought Id take it her myselt
So started on the tramp, niss: But when 1 came to where she dwelt,
1 thought it wouldn't do, miss. To write a ant tre
And go and take So when I saw the telegrapp
I clambered up the pole, men I clambered up the pole, mis.
But in my coat I got anke.
And in my thumb a hole. 1.eft the letter on the wires-
You hear how loud they buzz.
I think it Te
 They'll bring
I spose
I the
swhe to
 But as I've written to my love,
Hell have to wait, of course, miss.


Story of a Dog


Little Alice's Resolution.
A Maple Sugaring.
 through the white curtains of her litule croom, and after offering a simple s. uppy heart, she said : In I will see her ta


$\qquad$
$\qquad$ Another Book.

\author{
Noned weary, and it was evident that
a bad headache.

} Whie, mother. is natural, and it also tells the wretched | at he will be quiet with me.", and I life that is led behind the scenes. There |
| :--- |
| were the father, the mocther. and the |

$\qquad$

din the town, and go to school
day. I am in the Fourth Reader
 or fatout four years, and like it very Corner." One nice day last syring, I
and some of my friends went down to my Uncle George's to spend the day
making maple syrup. We got up early and went down to their place. We took
sonre pails with us. On the way to the ush, we had lots of fun catching mice now. When running under the thawing hopped the trees, and then began to

## to roll them aleased wim, and he hith his litle hands. His sister patiently gathered

$\qquad$
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$\qquad$
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they tell their friends and their friends' friends, and so general and so great has been the demand for our catalogue that at times we have been compelled to estrict its circu
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## ords. Ottawa. TRERS ON LINE

On my half of line fence, between
neighbor and myself, are trees To whom do myself, are trees growing. the line, to my neighbor or myself? Ans.-To both, and not to either one the other exclusively.
COOCH GRASS-FERTILIRERS 1. What is the difference betwe
grass and twitch grass, if any?
2. What
of either ?
3. What is your opinion of fertilizers
Ans. -1 . Couch grass" and "t Witc
grass ". are different names for the sam
weed mon one : auack grass '" is another com-
 repens (L.)" is the scientific na
2. Give thorough shallow With spring-tooth or broad-share cult thorough a prepartivation of corn all through
ther he summer, rather shallow fall plowing with early and thorough working next pring. Sow with, barley, seded
lover, unless the couch is very which case summer-fallow instead of of sowing barley, and sow to fall wheat, soed
ing to clover in spring. Leave clover

when used intelligently by a man right | their |
| :---: |
| We |
| past |

$$
\begin{aligned}
& \text { heur } \\
& \text { her } \\
& \text { wool } \\
& \text { wour }
\end{aligned}
$$ ing to clover in spring. Leave clover one

year, then break up in fall or spring for year, then break up in fall or spring for
another thoroughly-cultivated hoe crop
followed by grain seeded to Thoroughness is essential in eradicating sistent.

| thoroughly $\begin{array}{c}\text { intelligently by a man who } \\ \text { understands } \\ \text { his } \\ \text { busines }\end{array}$ |
| :---: | Gardeners and fruit-rrowers use themsierably, but the Ontario farmer keeps stock and saves his manure has

ittle occasion to bother his haut hem, although it is probable that pota ic and phosphatic fertilizers may com
o be used in a limited way to balanc

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have had this bull now for the pas


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| :---: |
| $\begin{array}{c}\text { Box } 293 . \\ \text { REGINA, san street. }\end{array}$ |

Miscellaneous.
Wash thoroughly with strong warme, sofft
soap suds. Hub with cloths until dry

$\qquad$ out and scattering under the apple treeyg
ofal and refuse of fish on lot adjoining
B's lot, and when the wind blows to B's
house the house the odor is very ofinensive.
be stopped from doing so ? do not them for you. The The Government
dor animals affected
tuberculosing
to $\qquad$
chronic spinitis.

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too meager description of symptoms


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lucludted in this lot will be the noted Lon
don (Eng.) prizewinning Hackney stallion
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a have still
feow ones left, that i will sell
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 trouble," says Mr. Walluce, of this place. work causes me to be out and exposed that way I I got my cold. Anse, it was in setted in mot my cold. Anyway, it
pretty sick midneys and mada me pretty sick. I got Lumbago in the back
cramp in the shortness of breath, a dragging pain at
the loins, and my urine wain dark sedliment. Then I knew the with a
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sth, the entries numbered 186, and good
pricher prices were realized, the 200 -guinea mark
beiag reached for two, taken by beiag reached for two taken by $\mathbf{M r}$
ailler, for Argentina, while three others sold for 100 to 120 guineas each.

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eggs for setting (from imported stock) egge for setting (from. imported stock)
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Air cure for milk fever We want to give to your readers a
dittle exprorience we have had with mill Sever. We have a very fine cow, hessie's
kuth, which on March 20th dropped Kuth, Which on March 20th droppede
calf. ${ }^{\text {The }}$ Thext morning my mat ate cali. The next morning my man tele
phoned me that he thought she was ac
ting ting rather strangely, and
suspected she had mily uspected she had milk fever. At about
o'clock he telephoned
ne to the bine telephoned me to come out real thing. I happened to have a milk
tube in my desk, and went down to the tube in my desk, nand went yown a mo the the
Gardware store, got a ticycle pump tor hardware store, got a bicyclown to the tor
15 cents,
and
when $I$ got out to the
 There was no dowht on what teft side.
the fever. and by that tine 1 got my
milk tube scallded she time

 ing. I want to to say she was to no nd ratly a qreat experience for fou it was rean-
that he could cure this to feel
 fever.-F. ©. ©. Chessney, ing Jersey buyletin.


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R. J. PENHALL, NOBER P. O., ONT HEREFORD BULLS Two about 16 months and three from 8 to 10 monthe old. Priced right to do busines.
W. BENNETr W. BENNETT,

The sumpystoe meneronds
 Tvin
oalv
your
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hoid
Add
A. $F$
 that will move the
Some choice cows an

 FOREST VIEW FARM HEREFORDS Four bulis from 8 to 18 months old: prisewin. err bred on the same lines; choice indiviluall
eror bule


| QUESTIONS AND ANSWERS. Miscellaneous.
MUSHROOMS IN A ROOT-HOUSE. Will mushrooms grow in a dark root
house, rather cool? Would old bricks be of any goord for seed? J. S. K. Ans.-(ellars or basement-rooms, where
the temperature does not go below 55
degrees degrees, nor rise above 65 degrees, are
suitable places for growing mushrooms,
In suitable places for growing mushrooms
In your district, we are afraid, from
what you say, that the
be what you suy, that the root-house would
be a little too coll, although they may
be grown successfully in stables
rather wurm be grown sucressfully in stables which ane
rather warm. As in interjectory caution,
do not make mushroom beds under the the manure will till the house. You
might try the root cellar, experimenting
in a small way. Bricks of musy in a small way. Bricks of mushroom
spawn may he kept without injury for a
number of years in a cool, dry place. RAGWEED.
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$\qquad$ deen-Angus sulls, thit for sice young serve, and hat
also a number of promising bull calves


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Shorthomms for Sale

 han again been bred to same bull. Will selle
fow -vear-old Strathallan heifers, bred eince the
New Year.
JOHN CAMPBELL,Fairview Farm,Woodville, Ont.
Wi. Gralager \& Son. Hawthorn Hord of
 Londosloore sta. and P.e. Oak Grove Shorthorns - Present offering:






Shorthorns ${ }_{\substack{\text { oren } \\ \text { sall }}}$

 h. K. FAIRBAIRN, - Thealford, Ont Shorthorns, Cotswolds, Berkshires Present offerings: Calvee
of both seexes, from 1 to 7
months also cows and heif
ers, 56 head to select from
Nothing to offer ers, 56 head to select from.
Nothing to offer in Berkshires
or Cotswolds. Btation and Post Office: E. BONNYGASTLE Scotch and stock + FARM Scotch - Topped SHORTHORMS
 Elmira Stn. and Tel. POW Wallo
HIGH-CLASS SHORTHORNS.


n. s. robertson, Amprior, on SHORTHORNS, LINCOLNS \& OXFORD DOWNS.

 SHORTHORNS AND LEICESTERS. Also bull calves.ang from imp. imp fires. . .eiciceester

- wes and lamus of both sexes for sale. Address $\stackrel{\circ}{\mathrm{O}} \mathrm{W}$. A. DOUGLAE,

Scotch-bred Shorthorns $\begin{gathered}\text { Four young bulls } \\ \text { fitfor service: alloo }\end{gathered}$

Shorthorn Bulls $-\frac{\text { Iup. Scotish Peer }=4 \text { y }=0424}{4}=$



## Il. $ل$ DAI DAMEN


how much each cow is earning for you 1 The
only way to know this is to buy a
Peerless Babcock Tester
it will tell you ORDER TO-DAY
a-bottle machine, prioe, es.00
C. Richardson \& Co,

Box 500
SHORTHORNS
Maple Lodge Stock Farm. 185.
 Ann 6th, got by Kinellar Stamp: allo
B few females for sele, all by Kinellar olomom OLONON SHANTZ, Hayseville. Ont
Beden Station ROWAM HILL SHORTHOBMS


a dunonn * sons, carluke, ont
J. Watt \& Son SHORTHORNS

SALEII P.O. Elora Stations, G.T.R. and C.P.R


SHORTHORNS Preand BERKSHIRES

 Lennozylll tablished 1 en Shorthern Cattlo, Loicester Sheep.
 Brown Lee Shorthorns

 SMITHFIELD FARM SHORTHORNS
 rocle himothe
 Young bulls for sale, sired by Spectator, im
Frices reasonable. $A$ pply to
JOHN MoCALLUM, Springbank Stock Farm
M. CR. Rad P. M. R. Box 81 loma Statlom MAPLE LEAF STOCK FARM
 IBEAEL GROFF, Muma P.O.\& Stn., G.T.R

QUIESTIONS AND ANSWERS. Miscellaneous.
an thopened road
a farm and a marsh, with a aing down through $A^{\prime}$, field to the arsh has never been opened. A forbids B to go through this unopened roadway to
the marsh.

Can A prosecute B for going
2. Can B force $A$ to open a road to
3. Who would he apply to to bave the
d opened? READER.
Ans. -1 . Yes.
3. To the municipal council.

LIGHTNING PROTEGTION FOR METAL
ROOFED
BUILDING.
I have put a galvanized corrugated
iron roof on my barn, and have' no eavestrough on it. Am advised to put a No. 9 galvanized wito from each orner of roof to the ground.

1. Would that be
2. Would that be a good protection
rom lightning ? 2. from lightning ? 2. If so, how would you fasten wire to post on way to the
ground? 3. How deap on ground ? 3. How deep would the wire
have to be put in ground? W. A. M. Ans.-1. If good conneotion is made be-
tween the wire and metol also good wround connection secured, protection should be afforded by rods made
of No. 9 wires twisted as described in of No. 9 wires twisted as described in
this issue in article on " Protection from Lightning."
3. Staple the wire loosely to the weatherboards.
4. Run the
is. Run the rod down into earth that should be deep enough.
CEMEENT CONCRETE FOR sAP ARCH How would you advise me to mix cement for a furnace to boil sap? Would it do to mix it the same as any other wall ? Is there anything else beside sand
and cement ? and cement? I was told wood ashen is
what is used to make fine brick What is used to make fine brick. What
proportion should it be mixed to withproportion should it be mixed to with-
stand the heat? Ans.-We would advise using just neat cement to lay the bricks; that is, use no sand at all; have the beds and joints
just as light as possible, and then back just as light as possible, and then back
up with concrete, made up with concrete, made of good, clean,
coarse $\quad$ gravel (not sand).
We might state that all of our boilers used in con-
nection with nection with our cement work and can-
ning factory, and our kilns ning factory, and our kilns in which we
burn our cement, are built this way.
king burn our cement, are built this way. Our
kilns, when ansextremely high heat is nenessary, are "just faced up with fire
brick brick set in neat cement and backed
with concrete Queenston cement, mixed 3 to 1 .
. The syrup furnace will not be very
large, and we would consider a wall 2 large, and we would consider a wall 2
feet thick, plenty heavy enough. If teet hick, plenty heavy enough. I
there is limestone in that section tha
stands fire very well, it could be used very successfully instead of prick, it will last a long time, and at less expense.
Or build it all concrete Or build it all concrete, if it can be
given a fair chanoe to set before using Do not put a hot fire on a green cons. crete wall, as it is very liable to crack
it up badly.
ISAAC USHER.
"ABSORBINE WORKS LIKE MAGIC." W. F. Young, P. D. F. Dearbine for four months on ming mberriage and saddle horses, and find it the best
remedy yet for windgalls and swellings remedy yet for windgalls and swellings
of all kirds. So far I have not had to use it for anything else, but am sure its curative properties are all and mure more
than claimed. It works like and than claimed. It works like magic, and
a. litule goes a long way 92 Crescent Road, L. STROTHER. 92 Crescent Road, Toronto, Nov. 25th,
1905 . Get a bottle to-day from your druggist,
or, if not to be obtained handily or, it not to be obtained handily, send
82 to my Canadian agents, Lyman, Sons \& Co., Montreal, P. Q., and they will
send you a bottle, express prepaid.
Danufactured by W F tanuactured by W. F. Young, P. D. F.

## HIS WIFES LUNCS BOTH AFFECTED

But the Great Consumptive Preven tutive brought liealth and liappl ness to his Home
"Our doctor atid there wae no gure for ny wird as both tier lugg weren Brockrile, Ont tither was esad diam Poith ment to to bolh, juet tathing out ine only mantied sshort ime. But becion
 and Pater taking six botlees Mre, Wation again." That in just one of the many familie hauth and happineses. It is a liviog prop
 LaGrippe, your Cough, your Bronchitit remedy that never fails-

## PSYCHIWE

50c. Per Bottle
 GLENAVON STOCK FARM. Shorthorts and Deritstires
 W. B. ROBERTS, Sparta P.o.

SHORTHORNS

 oreo. imios a son, mollat $8 \operatorname{in}$. and P.O.,C.P. SHORTHORNS Ind. Koith Rupo Mase
 CLYDESDALES
Just now: One pair of matched geldinge 5 and 6 JAS. MoARTHUR, Goblob, Ont. BARREN COW CURL

 Powtembe Gold and Sllver Fawn ST, LAMBERT JERSEY HERD

 T. PORTER, Oamleton Weat, Ont. T:PORTER, Campleton Weat, Onted
DON JERSEYS


D. DUNGAN,

Don P.O. HIGHGROVE JERSSEV HERD

 Bramptoll Jorsey Mord- We have now for im


 Yearlinge
two bull oalve. Prices reasonable, vico. Alio
F. E. WETHERALL

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## Farm Latoor Problem

The question with every farmer is what shal
Labor Problem
The scarcity of help has made it necessary
thast every possible means for facilitating the worli
be employed.
We would like tc help you out and would

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 Gream SeparatorIt will save time and labor in your dairy, as
well as increase the quantity of your crean


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easily operated, easily cleaned, and a perfect skimmer
Tho RAYMOND MFG. COMPAMY OF GUELPH, Limited
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HOLSTEINS EORE


AMMAMBMLE HOLSTEIN HERD



 of other prizes (different cows at differ-
ent showsi
Bull calves, 4 monthe and under only Bull calves, 4 months and under only,
or sal for from great dam and and greatest
of sires. Buy young if you want them

GEO. RICE, Tillsónburg, Ont
RIVERSIDE HOLSTEINS



Calodionta, RICHARDSON \& SON,
WOODBINE HOLSTEINS Hord headed by Sir Mechthilde Posch, abso
luteoly the best offoiel-becked sire in Caned

 the ohoicest quality for buale.
Ayr, O.P.R.; Paris, G.T.R.
95 head. Stock bulle view holsteins
 16 months, by our stock bulls, out of Advanced
Registry dams
Guarantead as repmales,
quall agees. Write quick. Guaranted as represented.
P. D. EDE.
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Wentre P.O.
OLSTEINS AND CHESTER WHITES.


few HOLSTEIN BULLS
等
c. w. CLEMONS

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AYRSHIRES FROM A PRIZ WIINHING HERD
 Campbellford stn. Menie P.O., Ont

Hook P.O.s York Co. FICKS, Newrto
Holsteins heifiergedale A few choice bull an
 R. Wh. Myrtle. C.P. R. Ontario Eo SPRINGBROOK HOLSTEINS \& TAMWORTHS



QUESTIONS AND ANSWERS.

| NASAL GLEET <br> Pregnant mare, 18 years old, dis charges a foul-smelling matter from one nostril. <br> C. M . <br> Ans.-This is nasal gleet, and the foul odor indicates that it is due to a decaying tooth. If this be the cause, it is necessary to extract the tooth. It is possible the discharge is due to irritation of the mucous membrane of the sinulses of the skull. Give her 1 dram each sulphate of copper and sulphate of iron twice daily. This will darken the color of the freces. If she becomes constipated, give a pint of raw linseed oil. If this treatment does not effect a cure, call your veterinarian in, and he will probably be able to locate a decaying operated on until after she foals. $V$. THORUUGHPIN. <br> Three-year-old Clydesdale filly has an the seat of thoroughpin hock, just above a slight enlargement on opposite side of joint. They both disappear when weight bottle of Kendall's spavin cure, and have not lame |
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tons.- -iven though this appears to
is be too high for a thoroughpin,
that it is. These are
$\qquad$
$\qquad$
$\qquad$
In DISEASED EyE.
In October last my mare's eye became
diseased. I put Gurnt alum in it, and
it got all right. In Felrum ing
it
disease again appeared. February last, the eye
low and glassy, with a pintio hol

veterinarian ard advise you to allow your

and ertract of of lollouto of rinc, 20

## he scours and paralysis.

## without it. A prighbor is would not

MACDONALD COLLEGE SL. Anne de Bellevue, Quebec. AYRSHIRE BULLS FOR SALE



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W. Owens, Monte Bello, Que.

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 AYRSHIRES - Choico stock of either bot. dif reasonable. For particularr apply to
N. DYMMENNT, Firm,
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o SHANHON BAIK STOCK FARI FOR AYRSHIRES AND YORKBHIRE Young stock of both sexes for
fation from imported stock.


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COTSWOLD SHEEP





## AOUTHDOWYN:

Having gola short, I am now booking orders tor
tuture oeliveryor thow and breeding flocks.
OOLLIEE
At stuad, Holyrooa Clinker,
Just importad.
Fee 810.00 . Robt. McEwen, Byron, Ont. BROAD LEA OXFORDS.





Tho hater roprees tide tor Yoparal yubu


 Seed Grains and Dorset Horn Rams


QUESTIONS AND ANSWERS. Miscellaneous.
breeding of prince of wales. Wales 673 was a pure-bred Wales 673 was a pure-bred
Would you kindly let me shire thare. Would you kindly let me
now, through " The Farmer's Advoe" if the dam of Prince of Wales 673 A subscriber for 28 years. N. B. $\mathbf{S}$. Ans.-We have no means of ascertaining. The Scottish Clydesdale Studbook says his dam, Darling, was bred by
Robert Knox, Foreside, Neilston, and
? sired by Samson, alias Logan's Twin (741), who was by lofty (455), and the from Andrew Giffen, who purchased he in a Dumfries market.
CUSTODY AND STPPPORT OF CHILDRFN 1. A's wife died seven years ago, and
left two children. B, and ore with C, and has not supported them. A has married again, and
wants the children home, can he take 2. How much can B and C charge a
year for the keep of the children ? year for the keep of the children?
Ont.
$\begin{aligned} & \text { D. J. } \\ & \text { Ans. }\end{aligned}$ 2, It is impossible to say what amount
(if any) B and C may charge without (if any) B and C may charge without
knowing move of the circumstances, and
verpecially the terms of the arrangement
made CRIPPLED SOW - COW WIPETTETH ABNORMAL weeks ago. About three digs seven after
weaning the pigs, she the cripples up in the hind legs, and lost al al
power of them. She seemed to be in terrible pain when movigeened to bquealing in all
the time she is moving. She will not
the sity take nourishment, only by forcing hor
She, is getting a little better now
Pleas it. Also have a cow that eats and
2. Alse theatment for
chews all the a Chews all the hoards she can find. What
is the cause of it, apnd what is the best
treatment? $\begin{array}{ll}\text { treatment? } & \\ \text { 3. Do you give premiums for getting } \\ \text { new subscribers ? } & \text { F. C. H. }\end{array}$ Ans.-1. Probably the oversupply of
milk in the sow's system after weaning
the pics was the cause of The pigs was the cause of the troubble.
It is a good plan to let the pigs to the sow once a day the first week when wean-
ing, and once or twice the second week. Warm weather, and a run on on grass, will
probably bring her all right. Wobably bring her all right.
2. Give the row some sulphur
wood ashes mixed with her salt. 3. Yes, our premium list has appeared
in the advertising pages frequently in the

## agricultural statistica

What is import and export trade o
Canada and United States for last year


LIncolns are Booming
We have only a fow more owe and ram
lambe and breading ewe for sale.
heve seven choice one
 F. H. NEIL \& SONS, Nolegraph \& R.R. station, LUCAN, OwT Sheep Breeders Associations.

SHROPSHIRES ESioarting eves and rams tor sale. ogo. hindmarsh. allas crald, ont oxtora Down hishoop shorthorn cattle




 OO "ITE UTOID fow choin rare ram ling ewes and ewe lambs, and
Prices num lambs, rikht type, for sald

Advertise in the adyorate

## Thif cossip.

I Inenety plched up a small girl of atbout elght summers on her way home
trom tohool. She said she was a farmer's daughtor. I asked her is they had belige a Sborthorn district, I asked he "thetr cows were Shorthorns. '" No , The Canadian White Wyandotte Club's
catalogue has just been recelved. It is
full of up-to fun of up-todate Wyandotte news, set-
ting forth the good qualities of the White Wyandotte. TThe Club has issued large number of these catalogues, which
are for free distribution, and those of our readers interested should apply for it $t$. the Secretary. J. F. Daly. Seaforth, Ont

CHICAGO'S LIVE-STOCK BUSINESS The fortieth annual report of the Un announces that receipts of sto Chicago hinde during forty years h have priling: cattle, $78,169,550$ head: calves 3.690,102; hogs, 232,383,084; sheep,
70,482,381; hortees, 2,080,522. Ship Imente during the same period have ng grepated 116,598,108 head, composed of: cattle, $32,881,619$; calves, 591,728 ; $\begin{array}{cc}\text { hoge, } 64,848,776 \text {; sheep, } 16,872,444 \\ \text { hormes, } 1,903,541 \text {. } & \text { The grand tota }\end{array}$ handled by the company, since its commencement, $508,408,69 \%$ head. In 1866 , the valuation of the stock was $\$ 42,765$,-
828. In 1905 , it aggregated $\$ 300,472$ 880. Vorily the live-stock business of the Windy Clty is stupendous. The scene of thia activity is a place one inspects wreath of relief. and leaves with a

AN TMPORTANT SHORTHORN SALE. Chinguat 11, con. Cons. Peel Cownship of miles from Brampton, G. T. R. and C. Wednesday, May 16th, Mr. Guy Bell, whose P. O. address is Brampton, will 38 head of imported and Cantire herd of Scotch and Scotch-topped Shorthorns26 females and 12 buils-including the stock, bulls, Prince Cruickshank (imp.), a
roan, by the massive show bull, Emperor roan, by the massive show bull, Emperor,
dam Golden Princess, by the Mina bull, Master of the Mint. Prince Cruickshank is now in his even-year-otd form, but is
still active, and said to be sure and good still active, and said to be sure and good
for years' of service yet, and he has for years of service yet, and he has
proven a sire of sterling worth, as the many good young things in, the herd
proves. The proves. The other sire in service is Imp.
Cronje 2nd, a red, three years old, sired Cronje 2nd, a red, three years old, sired
by Chief Mate, dam Crona, of the by Chief Mate, dam Crona, of the
favorite Marr Clara tribe. He is an extra good type of the up-to-date Scotch
Shorthorn, short-leggod, thick-set Shorthorn, short-legged, thick-set, very
ovenly balanced; in fact, a sh-w bull of venty balanced; in fact, a show bull o ing extra well. The other bulls range from 4 months to 2 years of age, nearly
all sired by Prince Cruickshank, and two cows in the herd, namely, Imp. Celia, by Sir James, dam by Ivanhoe, and Imp.
Fairy Maitd, by Clifton, dam by Lord Besides an eight-months-old
Doan bull calf by Prince Cruickshank, out one of these imported cows, there is a Cro-year-old red heifer, by Imp. Prince Cruickghank, and another by Imp.
Nonpareil Archer, in calf to Cronje 2nd. The breeding cows are an exceptionally large, heavy-fleshed lot, some of them weighing up to $1,800 \mathrm{lbs}$., and all not
having calves at foot are in calf to Imp. aving calves at foot are in calf to Imp.
Cronje 2nd. In younger heifers, there are about a dozen from 1 to 3 years ge, a rare good lot, and all in grand condition. Besides the above named im orted cows, the balance of the herd be
ong to the Margaret, Zee, Rose of Ken
lacky,
families,
milkers.
ided to Mr. Bell, equently everything mold, and the sale asity seldom offered The terms are : 6 mont per annum off for cash.
will meet all morning oads on day of sale.
provided.
See the adv write for catalogue, which on application to Mr. Guy
ton P. O., Ont.


Dr. MoLaughiln



I have JAMBS BROWN. ${ }^{2}$
 WIII furnish you with the names of thousands of people, old men, who, out of gratitude, will write you. The it teghteen.
How often that
Beitl They say t tovery day, Men Who have been cured of Nervous Deblinty by the Dr. McLaughiln Electric that they are as good as any man that walks and better than any man of their silue. You know strength is restored; rrand invigorator. The proposition you were as good as any many of your size. You can if you woull are weak this il forms of weatiness in men end women.
"Electricolty lis tha banis of human vitality." Coming from him, you belleve it. Corsity - makes the assertion that past twent years. some believed me. Some didn't. Irom say this now. .Electricity is the power that that for the
wheel in your body machinery, that enates you lt's ilke the team in an engine When you to talk, to walk, run, think, eat and everything else you do. To
Maybe you believe that-or not. You will some enough you are strong-not enough, then you need my Belt Anyhow I am ready to back up everything I say, and all I ask you to spend is your time. And as mhile you aleep. Some of the things I can cure are: Deblity of any organ of the body, decay of youthfil vigor and every evidence of it; weakness of kidneys,
tomach, IIVer, rheumattic pains, poor circulation, constipation and gen-
eral fil-health.
I can give you the name of a man in your town that I have cured,
I don't care where you are. Tell me and Yil give you his name, and you
can and can akk hlm about me.
Now lec
man get together. If you would ilke to be a stronger, younger man want you are, come to me. Call and rll give you all the satisfaction free a book that wwlltell you how I do these things and of men who have
been oured by my Belt.


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## 



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Chester White Swin Rigs shipped not akin
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