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Vol. XTIII

EDITORIAL.
OUR IRRATIONAL SCHOOL SYSTEMS. aigh School has instituter a Pennsyivania dual purpose of educating his pupils and benefiting the owners of the cows. The school proposes to cow whose owner is willing to weigh each mess of milk and take samples for the Babcock test. The work will be done at the school much as it would
be at an ordinary creamery. The idea is a splendid one. By impressing on the pupils, as it is did one By impressing on the pupis, as it is knowing the performance of every cow kept, and, testing an influence will be set work that cannot fail to have a telling effect when they grow up, not only upon their dairy practice, but their whole system of farming
The enterprise of the Pennsylvanian carries a suggestion that might be adopted elsewhere. If
some Canadian teachers, for instance, could take some Canadian teachers, for instance, could take up more work of this kind, as practice in mathe
matics, it would be infinitely more to the pur pose than these endless problem shares, or diffeeence in the time it requires to row shares, or diffeeence in the time stream. We are not contending for the teaching of agriculture as a subject in public schoois, because it seems very difficult to introduce agriculture as a subject and
have it taught in a beneficial way. Our teachers are not qualified for it, and even though they Schools, many of them would still be liable to present the subject in an absurdly impractical light. But in this country, where agriculture is admittedly the foundation of material progress and where the great national problem is how to keep a sufficiently large proportion of our brigh young men and women on the land, why not give our schooing an agricuitural and, wherever pos sible, more prcblems, exercises and passages in troduced that will tend to interest and instruct than those tending so frequently to the profes sions and the trades Also there should be an especially earnest attempt made to introduce na-ture-study and school-gardening
has may wonder in what way our schooling will show that man is a gregarious animal-he is prone to companionship-living in groups. This desire asserts itself with increasing emphasis in the individual whose social character has been somewhat developed, as it generally is by school work in a gang, induces many a lad, influenced mayhap by his girl friends, also of cityward inclination, to choose a trade, or even the lot of an which, of course, involves a more or less isolated life and solitary work. To regulate or balance
the well-marked cityward tendency of the schools, we must take particular and unceasing pains to educate the boy to appreciate nature and open
his eyes to the possibilities the farm offers in the way of a happy, prosperous life. Heretofore our ach education has lacked this essential correcfact must be recognized that the vaunted systems of our Canadian Provinces have strongly to depopulate the country, drain-
of much of the flower of its young manof much of the flower of its young man-
the Farmer's Advocate and Hole Magazine

- Eendang agricultural jouranal in the DOMINION

JOHN WELD, Maname
Wrast's Advocatt ant heone Jeoment
Wingifage, Man
W. W. CanAPMAN, Agonem Mowbray Houed
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 Adreses-THE PARMER'S ADVOCATE, o TEE WILLIAM WELD COMPANY (Lherted)

Lompon, Cariada
sist-nay, more, it is our duty to insist-on hav ing our whole educational system recast and get that the to our needs; and let us never for has been, is, and probably always will Canada good farming.

THE DAIRY INSTRUCTOR'S AUTHORITY The year 1907 introduces a radical departure which has been carried on in the Provincte of tario the past few years. In 1903 the Dairymen, Associations of Eastern and Western Onterio aided financially by the Provincial Department of Agriculture, undertook what has been called the system of syndicate instruction in cheese factories and creameries. Each factory, for a moderate
fee, could have the services of one of tho Associafee, could have the services of one of the Associa-
tion's corps of expert practical instructors, who
would visit it occasionally throughout the making would visit it occasionally throughout the making men possibelso did ate him generally. The for adulteration, and on the strength of milk findings prosecutions of patrons were sometimes instituted. Thus a wrong impression gained ground among the patrons, who came to think of
the instructors rather as inspoctors hereas their chief duty was not milk-testing but practical help for the makers. Inder Chief
Instructors Barr in the West, and I'ulfow in the East, two of the most devoled and capably men who ever gave their time to the publice serv
ice, a marked improvement was affected in the manufacture of butter and cheese. Two olstathes remained,
First, the
by a minor
dactories was
and bad-flavored mill it should the. (1)wn lessmess and dirt, oiten defeated the makere , an earnest efforts
of cheese per vat of milk, entailing a really seri-
ous loss on all the ous loss on all the good patrons. The man at return overripe or bad-flaved about his duty to erally erred on the side of leniency, fearing to drive away a patron, especially when the latte happened to live on the boundary of another fac tory district. Some makers nose to their re sponsibility, and educated their patrons to deliver better milk and cream; but, for the most part there still remained great room for improvement In the hope of getting to the heart of the diff culty, the instructors were directed to spend less time in the factories and more in visiting the patrons. In Wesiern Ontario a good deal was
done on the farms in 1905. What were the redone on the farms, in 1905 . What were the re
sults? The patrons whose dairies and practice were the worst laughed at dhe instructors' mendations. Did they move their milkstands away from the pigsty when asked? more did not. Did they provide ice to cool their milk, or take any pains to keep it clean? Many made not eyen a pretence at improvement, and when next they sent sour milk, chances were the maker accepted it as of old. The patrons despised the authority of the instructors with imthorn in the side of the oth minority of factories ex export business was the ittle ones-which refused to invariably the poor, tors. Here inferior cheese and butter were manu actured, which went to the British market Canadian, to the prejudice of our national rer

The system of instruction as heretof,re Samethinad gone about as far as it rould go. patrons and factories. Accordingly, ome addi fínal legislation was passed by the Iegislature yean ago, in the form of an amendment to the act to Prevent Fraud in the Manufacture of Dairy patrons and factories substance, simply required dairy products. To enforce the law. two sanitary Agriculture Agriculture. These men were absolutely distinct or 40 instructors enced the regular staff of 3 sociations. During the summer Dairymen's As inspectors accomplished quite a littie two sanitary ing the drainage and water supply of factories improved, in having milkstands moved away from unwholesome quarters, and in other ways seeing
that our goods were manufactured surroundings.
It soon became plain, however, that two sani
tary inspectors were altogether inadequat cover the ground. Besides, it samorequate of erogation to have one staff of instructors and an first of inspectors. It was, therefore, mooted first through "The Farmer's Advocate," that the the instructors be given legal staff, and that all sanitary inspectors, in ortay ihn thay inight enthe mind of the Minister of Agriculture this insome of the inspectors micht possibly trouble, for themselves, and apply unnecocikar (to much upon actory to hire an instructornarid to ask a might find himself called upon to require who The upshot go expenses for improvements. ment of Agriculture has taken over the adminis tration of the whole system, and will henceforth fandle it from Toronto, in co-operation, how
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## a reasonable time allowey in which to effect

 remithators, consisting of the made to a a boar
and a representative of the Department culture. These men will finally decide what provements must be made, and allow a reaso is determined to allow intion. The Departmen is determined to allow nothing unreasonable for insisting that all factories shall come necessit reasonable standard so far as sanitary conditio are concerned. The same is true as rondition farms where the raw material is produced
It has been decided not to have the instructor devote their time to testing milk for adulter tion, except where the authorities of a factory creamery state that they have clear evidence milk having been tampered with. Then the structior will be allowed to assist in making a further test.
In short, the object of the instructors' work is and always has been helpfulness to maker and patron. They are not detectives nor constables, serve to bring indifferent or obstimate proprity repatrons and makers to time orstinate proprietors, an excellent one, and Hon. Nelson new system is be congratulated on having Nelson Monteith is to change, while at the same time providing agains unnecessary friction or the semblance of political interference. To the patrons it will work only benefit, resulting in a higher average standard of puality in exported pront and umately the enhanced prices which uniform excellence is always in a position to command

OUR MARITIME LETTER
If we are without specific information on any matter-of public utility, at least-in these days, it is largely our own fault. We were rash enough critic a demand for inital had done for apricung of permanent value they impression was that they had country. Our was not so easy to produce the arguments but were produced, it is true but what is Some without proof is denied without proof-Quod gratis asseritur, gratis negatur, as we sayo dialectics. Now, the other side is to be heard as is right and proper. Last week's mail brought me a letter from a much-respected official of the Farms in question, in which we find the following which is signilicant enough for anything: "I do not know whether you have yet received a copy o The Inter Report of the Experimental Farms. There have not beon many published yet. I send when people ack you what thing to have by you have done for you what the Experimental Farms of your Maritime Letters at a loss to say at a monent's that you were the Farms have done. This will just what pamphlet to carry about with you." Could good thing be done more innocently? Then copies Well, we embraced the very first fesing this life-preserver, in pamphlet form, and reel that it is but right that we send the answer, as far as the question which the doubter of yespotten proposed. This report seems to have been Thomases as he answer to just such doubting Mainland It encountered on the agriculture in resumes the whole condition of Select Committee of the the finding of the 1884; remarks upon the perimental farms through the action of Sir John decades in 188.5, and claims that in the couple of decades since there has been " an unprecedented giving due credit to the O. A. C., at Guelph, to the Farmers' Institutes, agricultural circles, dairy, ( live-stock and fruit-growers' associations, agriculthe Commissioner's Branch of the Dominion Dept of Agriculture, there still remains the larges measure to make the ample iustification of the Farms. This progress, Director Saunders freely asserts, "has resulted in a general improvement
in the condition of the agricultural population all over the country, and in a vast increal population all over the country, and in a vast increase in the ex
tinues, " covers so large a field that it is impossible to present in a limited space anyt hing like a some of the important lines of investigation.' He then aminadverts to their efforts in "Maintaining the fertility of the soil, the adoption of a judicious system of rotation of crops, following the best methods of preparing the land, the selec tion of plump and well-ripened seed, early sowing, and choosing the best and most productive varihave been conducted, under the different climatic influences which prevail where the several experi mental farms have been located. Continued ef orts have been made to gain knowledge as to the
best methods of maintaining and adding to the fertility of the land.
After detailing to some considerable extent the work accomplished under these heads, he refers to what has been done in improving the seed grain of Canada by the introduction of promising varieties grown in other countries, by the improve ment of existing sorts by judicious selection, and by the production of new varieties by cross-fertili zation and subsequent solem ising types.
anas, the reader will remember, had asked us to name the single new variety of grain origicouldn't bring our memory into range, no matter how sure we were of our ground. The Principal doesn't, however, make any such claim in the Interim Report. But let him speak for himself

The third method referred to by which improvement has been made in the grain grown in Conada is by cross-fertilizing of different varieties. This has already produced very useful re sults, and the prospect of further improvement rom this line of work is most hoperul and encouraging. The which may be maintained by careful selection, are, for the most part, bounded by narrow limits; but in cross-fertilizing, the out look for variations of a much wider character is practically unlimited, and the number of distinct varieties which may be bred from a single cross is sometimes startling. Many of these, ater cartic ful testing, are found to be lacking in some particular quality desired, or are inferior in quality to uch are promptly discarded, especially those inferior in quality, since quality is most important, and must be maintained. Others of promise have his work is to produce cereals equal in quality and productiveness with the best varieties now in ultivation, and earlier in ripening. It is also esired to have these more or less immunity rom rust. Varieties have already been produced superior in some of these particulars, but not in all. Some of the cross-bred wheats in a tenears' trial have proved more productive than Red Fife, and have ripened a week earlier. Other arieties have a higher proportion of proteids, and ence would probably be more nutritive. A varity has been produced with nearly fifty per cent. ore protein than Red tho three weeks been obtained wire. In most cases extreme earliness as asom with a somewhat lessened crop Indeed, it is only reasonable that such should be the case. Where a grain has such an early ripening tendency, it is hurried along by the forces of nature so rapidily that it has not ime to store in the fast-ripening head kernels so plump as in the case of a slower-ripening sort,
and it is not unlikely that it may be exceedingly fifficult if not impossible, to combine all these解 varimy bies in the highest are so great that the possibility of its attainment should prove a stimulus to unceasing work in this di-

So it would appear that we have thus far ininated little worth while that is distinctively dian in the grain line; nothing which we claim as a pure and simple contribution logical scie
before us.
other results in the special lines of experiagriculture followed, we must refer to in a nent letter, in order to hold the scales fai
A. E. BURKE.
$\qquad$
POINTS OF THE CLYDESDALE It is not easy to find language which will adoquately convey an idea of the present standard of employed are of necessity relative, and have differ ent shades of meaning, according to the example of the breed present to the mind's eye of the writer or reader.


Chibiabar
Thoroughbred stallion. A King's Premium winner.
The old school of Clydesdale judges-that is, he school of thirty-five years ago-began to judge finishing head, travelled over the back and quarters, school, which the limbs and feet. The new fifteen years ago, begin with the feet-" no foot, no horse "-and travel upwards. We follow their example. The ideal Clydesdale horse of modern days has large, round, open feet, with particularly wide coronets, and the heels are also wide and
clearly defined. His pasterns are long, and set clearly defined. His pasterns are long, and set
back at an angle which would be considered to


Celtic Prince (imp.) [5313] (12901).
Clydesdale stallion, black; foaled May, 1904. Sire
Everlasting (11331), by Baron's Pride; dam Flora McDonald, by Hiawatha; grandam Sunflower, by Prince of Wales (673). Winner of 1st at Ottawa. 1505; 2nd at Toront
February, 1906; 2nd at London, 1906. Owned by A. F. O'Neil, Maple Lodge, Ont.
acute in the Shire. His bones are wide, flat, an animal which keeps
consequence of the attention bell together. The carry both feet absolutely straight and level. He a good walker and a good trotter rule, is both has a wide chest and low counter, but his limbs best show horses have had trotting action almoist are planted well under him, and there is no ten- equal to that of the best Hackneys, while there der-that is, having the fore limbs so coming out could have excelled Darnley at the walking pace of the shoulder that the horse is compelled to The chief improvements effected in the Clydesdale walk in front somewhat after the fashion of a bull- during the recent years are, in our opinion, these :
dog. The slightest inclination to this in a Cly- An increase in the quality, by which we mean the
density and wearing properties of the bones; rib, shortening the the direction of deepening ; a barrel; a gradual but quite discernible return to the old Clydesdale type of head, and a very distinct advance in general soundness and freedom
from the diseases scheduled as rom the diseases scheduled as hereditary un-
soundnesses by the Royal College of Veterinary Surgeons. In proof of this, it is but necessary to refer to the results of the veterinary examinasince these came into force. None of the Shows draft breeds has come anything like so well drait breeds has come anything
through this ordeal as the Clydesdale.

## DEFECTIVE ACTION IN HORSES

Defective action in horses is usually due to undedone to correct it. The height of action can be greatly influenced by careful shoeing and driving, but these sidersble degree. The true actor will fetch each con-
siden forward in a straight line, neither paddling nor rolling the fore feet nor going wide, nor yet cloge enough to
interfere with his hind foet. Any deviation from the interfere with his hind feet. Any deviation from the
straight line is defective. An exception to this may
be made in respect to the roadster which is o. go somewhat wide behind, although the "straight line trotter is preferred. The line of action a horse
will show can, with reasonable certainty be tog his conformation. This is especially true in regand to fore action. A horse with a breast of average breadth with fore legs set well under the body, and descending ownwards in a straight line, deviating neither out toes neither outwards nor inwards, will, with few it any exceptions, go straight, while if there be any do viation in the direction of the limbs from the shoulder oi the ground, or if he turn his toes either way, there
will be a deviation from the straight line of action If the limbs deviate outwards he will of necessity stand with his feet wide apart, and will usually stand out-toed. Out-toed horses usually roll their feet; that
is, when the foot is lifted and brought forwand the toe deviates inwards towards the pastern, fetlock, cannon or knee of the opposite limb, according to the height of action. In many cases the opposite limb is struck In the case just mentioned there will probably not be speedy stroke, as the feet are planted at considerable distance apart, and though when lifted a foot tends to come inwards under the center of gravity, and at the
same time the toe rolls towards the other limb, in same time the toe rolls towards the other limb, in
most cases will not strike it, because it, instead of being well under the body, deviates outwards from the line of probable contact with the shoe of the lifted foot. The wards and inwards from the shoulder to the ground (which conformation is usually accompanied by a very wide breast), the feet are planted close together, and
in most cases the toes turn inwards. In-toed horses isually paddle or dish; that is, when the foot is lifted and brought forward the toe describes a segment of a
circle outwards, requiring for progression a much wider pace than for standing. At the same time, horses paddling gait to a marked degree, as when the lifted the tendency of the whole limb is to incline outwands under the center of gravity, and this removes from the foot the well-marked rolling motion. In either of the above cases there is practically no danger of the
animal injuring himself on account of defective action, and although such defects lessen his value, they do not
greatly lessen his usefulness, and little if anything can Probably rolling causing "'speedy stroke" is the most serious defect in fore action. This is noticed in
horses whose conformation from shoulder to fetlock or horses whose conformation from shoulder to fetlock or
pastern joint is normal, those which stand with the outwards. The mallormation may, and often is, from the fetlock downwards; the bones below the fetlock deviate outwards to a greater or less degree, and, as
a consequence, when the foot is planted the toe turns
In tern joint downwards. The danger of the horse injur ing himself is influenced by the degree of deviation and
the height of action. The tendency is to roll the foot the height of action. The tendency is to roll the foo
and strike the opposite limb. The liability to strike can, in many cases, be lessened by careful shoeing.
When the fetlock of the opposite leg is the seat of con tact, a heavy shoe, with the toe rounded instead of hav ing a calk, will in many cases cause the horse to lif
the foot higher, and thereby prevent striking. Whe the knee is the seat of contact a light shoe will usually cause lower action and prevent wounding. When the
defect in action is so marked that he will strike at all heights, prevention is very difficult. All manners o, is, shoes covering
wall, reaching only bare; lowering the
correct the standing the toe inwands.
as in order to kee
sary that the horse stand nerrly or suite level. material deviation on certain strain on certain the joi
bones forming the ness, but much narrower than the inside from toe to
heel. The shoe must be of the same thickness in inside he may stand and plant the foot level, but the and the theory (a mechanical one) is that when the
foot mider is consenuently much heaver, loot is suspended in the air the weight on the inside
tends to keep it down below the level of the outside and thereby prevent the rolling motion. Some claie, that the outer side of the shoe should be the heavier but we have never known it to correct the action and
cannot understand the principl cannot understand the principle upon which it is sup-
posed to act. The rolling motion posed to act. The rolling motion of some horses is
more easily modified than that of others, and what will affect one will often have no beneficial action upon another. In many cases we find that the fault cannot be corrected by any manner of shoeing, and unless the
animal can do his work without shoes, we are com pelled to use ankle, shin or knee boots, according to the height of action, and as the height of action ofter depends upon the speed at which a horse is driven sometimes necessary to use both an ankle and shin boot some also a knee $\qquad$ " WHIP.'

## HAND - RAISING COLTS

Seeing an inquiry from Bruce County, asking or experienoe in hand-raising colts, I will give ours, but she was held for the colt tor would not of her milk for the first week, besides a little milk of a fresh cow; and it was fed nights the first two weeks. The second week it got a cup of milk
with a teaspoon of brown sugar every two hours (no water). As the colt got older, it got a quars of milk with a tablespoon of sugar, and then three quarts with a handful of sugar. The colt Was fed every two hours all summer-not nights, handful or two of oats as soon as it was old enough, and was kept in a little field handy to It never was sick, and has stable every night. It never was sick, and has grown to be a fine
large colt. ONE WHO RAISED THE COLT. Wentworth Co., Ont.

## LIVE STOCK.

## DETERMINATION OF SEX

Many and strange are the theories put forth man among the rest. Many of these conjectures are absurd on the face of them; others seem more or less plausible, but fail when put to the striking coincidences as cause and effect, and jump nevertheranted conclusions. The subject is we were somewhat interested the other day notice the following experience, related by one who calls himself "Spero," writing in the Eng
lish Live-stock Journal. This man became inter ested about twenty-six years ago by a paragraph in the above journal setting forth the theory of covered that the sex of possible calves chandisregularly every time the cow is in season. Thanges
test test this theory, the English breeder selected nineteen of his pedigree Shorthorn cows, which The cows were served at the usual time trial. calving, the intervening periods of oestrum being ably in the time between calving vary considerheat, it follows that some were and their first first heat and others at their thind orved fourth. The sibly was starting, for in every case, except possibly one, the theory panned out. The cows
which produced bull calves, and were again at the first, third or fifth period, produced
heifer calves, while those bred at the second fourth and sixth periods dropped calves of the Some years later he changed the breed of his Some years later he changed the breed of his
herd and went in for Jerseys. It was then desirable to secure heifer calves, and the rule was
applied with general success. As absolut cor applied with general success. As absolute cer-
tainty in selecting the odd or even numbered heats ainty in selecting the odd or even numbered heats
was not always possible, occasional disappoint ments were met with, but this happened rarely,
and never when there was not room for doubt. The correspondent does not remember of any other similar experiment with cattle, but mentions the case of a gentleman who tried it on
noultry. Selecting a prolific hen, he placed her cggs in two baskets, alternately, he placed her they were
aid. One lot hatched all cockerels, the other all laid. One lot hatched all cockerels, the other all
lollets. How this theory could be reconciled
with the occurence of with the occurrence of hoth males and females in
tters. We are not told
The above theory is simple, and seems at least The above theory is simple, and seems at least
nite as plausible as most others we have ever
ard relative to this interesting subject. If
ing is to put on a shoe the outside of which from ago, but sometimes simple explanations long elude
the toe to the heel is light, being of the same thick- the attention of investigators. Will some of
ness, but much narrower that

THE HOG INDUSTRY IN GLENGARRY dated April 10th is a copy of portions of a letto Farmers' Institutes, G. A. Putnam, Suporintendent of Anderson, who has been attending special bacon mean ings in Eastern Ontario afternoon. The attendance was not large, County this age about 30. At Lancaster, Bainsville, Alexandri and Maxville the meetings were interesting. Alexandria our points named the discussion was animated and
keen.
Bainsville was in this respect ken. Bainsville was in this respect one of the best
Institute meetings I have ever attended. Sometime was deluged with questions, such as, ' Does it not cot Is it profitable to brow hogs in winter thick fat? the best kind of pen to build?' ' Should hogs not is crowded fast so as to be ready for the market at five
nonths or earlier? he correct bacon type ; to grow more more hogs of grain feed; break up some of their worn-out hay felds grow roots for hogs in winter; and re-seod to grass, '. I tell them they have in Glengarry 31,000 milch up their dairy kill or sell 21,000 hogs. That to work hould at least sell two hogs to the cow, that would now, the and instead of getting $\$ 200,000$ as they are 000. I am urging them to grow roots. there $\$ 500$, 700 acres of mangolds and turnips raised in the whole county. I gave a number of reasons why roots should
be fed-that the hogs will thrive better meal and make a better use of what is fed that save a liberal quantity of roots are in the ration when the hogs are growing and being finished, they help make a
frm and superior quality of - " In Montreal wel establishments, and found at one place a bunch of 5 hogs, but in the lot there were not one dozen of good
ones. Thirty of them were unfinished, and did not
weigh more weigh more than from 100 to 130 pounds, and wore
very thin, skinny, lean, and undesirable lot, and shoul have been fed at least six weeks longer. Another company had, at least, 500 fine hogs; $70 \%$ were first-
class in both bacon conformation and finish class in both bacon conformation and finish. They
came from Campbellford, Ont the producers of them had made profitable use of the instructions received from your Department. You may
judge the quality of the hogs by the price paid, $\$ 7.65$
delivered

## DXYGENIZED MEA

announced despatches from Sydney, Australia, recently preserving meat by discovery of a new method of supersede cold storage, with its freezing and chilling ton to 8 , reducing the cost from 60 or 70 shillings per cost for plant. It was stated about one quarter the about to be made to England of the meat. We at of the to Australia and England for verification dressed-meat trade of Liverpool, Eng., the following "We are in receipt of your favor of the 20th ult.,
regarding the reported process and in reply thereto beg to say that we have no meat. to be possessed of process than what you also seem may sas that similar processes glean any here. We announced here about every three months, but they never come to any-
thing. If any interesting information thing. If any interesting information reaches us later
we shall have much pleasure in sending it on to you."

DOGS, AND WATER SYSTEM Editor "The Farmer's Advocate":
The dog question was settled in our munici pality long ago; $\$ 1$ is charged for every dog
over six months, $\$ 2$ for bitches. If any sheep are killed by unknown dogs, owner is compensated
for two-thirds of sworn value of sheep is also paid to any party shooting a dog worry factory, system of watering cattle is very satis-sheet-iron trough runs full length. A galvanized row of cattle. Water is supplied by gravitation through iron piping from a spring twenty rods away. The
cost of the whole system did not exceed fifty
dollars including dollars, including labor. An overflow is con-
nected to trough.
Ontario Co. Ont.
 our strength. We ought to live withe measure of
the flowers, with of the joy of the birds, with the freedom of wind and wave. Without question this
is God's ideal of human life -W. W. Watking

APRIL 25, , 1907
THE FARMER'S ADVOCATE

MOTES FROM IRELAND. SHORTHORNS BOOMING We are going ahead in Ireland, in some things, at all events, und Shorthorn breeding is one of
them. Judging from its popularity with cosmopolitan red, white and roan is the breed for this country, and its supporters have every reason By the results of public sales, one it is making. the measure of appreciation entertained for judge class of live stock, and the recent extensive Belfast auction of pedigree Shorthorn bulls was not without satisfactory significance. The bulls cata-
logued were of a very useful forded unmistakable evidence character, and afterprise which the majority of the skill and enbreeders of the north are bringing to bear upon the management of their herds, which, for the most part, are of recent origin. To Mr. F. Mil-
ler, of Birkenhead, the well-known and extensive exporter of pedigree stock, fell the distinction giving the highest price yet realized at a public Shorthorn sale in Ireland, namely, 300 gs . This figure he paid for a remarkably level, well-made
young red yearling, bred by Mr. J. A. Gibson Craigavad, Co. Down, and rejoicing in the name of Enfield, Bonnyblink, This calf is from the best strains of the old Sittyton Clipper tribe. We
may breifly summarize the trend of the sale prices may breifly summarize the trend of the sale prices
by saying that upwards of one hundred bulls sold at the very considerable of one hundred bulls sold
atage of over $£ 4211 \mathrm{~s}$. per head. The best prices were realized by Mr.
R. W. Bell, Coagh ; Mr. Thos. Pist R. W. Bell, Coagh; Mr. Thos. Pattleton, Money
more ; Mr. W. J. Lyness, Moira; Mr. I. H more; Mr. W. J. Lyness, Moira; Mr. I. H.
Cowan, Moneymore; Mr. George Dickson, New-
townard, etc. townard, etc.
The increase in the number of pedigree breeder has been commented on in many places, and some Irish herds as valuable sources from which to derive changes of blood. Recently one of our eading breed enthusiasts, Land Commissioner
Hon. Fred Wrench, who is also a noted Hackney supporter, drew the attention of the Shorthorn Society of Great Britain and Ireland to the prog ress of the breed on this side of the. Channol, and meequested the society to arrange for occasiona
meland. This proposal seemed only iair, but some worthy English and Scotch mem-
bers, at the meeting at which it was considered raised unreasonable objections. It was then de
cided by some of the leading Irish hold a meeting of their own on the occasion to the annual spring cattle show of the Royal Dublin Society, about the middle of April, and the arrangements for this junction, which is to be parA deputation will attend the gathering from the shorthorn Society, and there is every likelihood Shorthorn breeders, not, of course, as of rival but as a branch of the existing Society. There are some three hundred pedigree Shorthorn herds
in Ireland, and the periodic meetings of in Ireland, and the periodic meetings of and discusbe productive of beneficial results. DEATH BUSY.
Agricultural and live-stock interests have reI may mention the passing away, at 69 years of age, of the noted agricultural chemist, Prof. Warington, M. A., who for many years was intimate-
ly associated with the Lawes Experimental and Research Station at Rothamsted. He was the duthor of some standard works, the best known of which were his "Chemistry of the Farm," the a treatise on "Soil Analyses." In Ireland one owners has been called and most popular landE. T. Dawes Longworth D in whe person of Mr. ful estate at Glynwood, Athlone Co. Westmenthcarried on successfully the breeding of Clydesdale horses, Hereford cattle and Oxford Down sheep, bringing out some choice specimens to our lead-
ing shows. He was identified with several agricultural and breed societies, and an active member of the Royal Dublin Society. From the ranks of yet a third section of the agricultural com-
munity, viz., the land stewards and farm agers, a well-known and much-esteemed personality has entered into rest, in Mr. John Murison, Ie vas only about thirty years of age, but had
already won remarkable success in his work Dunmore, Durrow, Queen's Co. the headquarters of that well-known stock exhibitor, Miss Staples. Only last year Mr. Murison led the champion Shorthorn bull at the Dublin Spring Show, and
at the English Royal, also, it was he who brought into the ring the animal that erentually won first prize in the aged bull class among the reds,
whites and roans

THE INTERNATIONAL EXHIBITION
Arrangements for this great venture are being
en.rgetically pushed on, and a staff of well over
1,00 workers are rapidly bringing the structural
and other features to completion. The opening
ceremony is to be periormed on the 4th of May
by His Excellency the Earl of Aberdeen, by His Excellency the Earl of Aberdeen, and will
be vested with all the pomp and splendor inseparable from a state function and splendor inse ' Emerald isle.
Progress in the sense of acquisition is somegreat deal moregress in the sense of being is a as the years go on ; to conquer difficulties, and
to acquire more and more power to fel to acquire more and more power; to feel all one's
faculties unfolding. and truth descerding into the
soul-this makes life worth soul-this makes life worth living.-IJames Free man Clarke.


Broadhooks Champfon


## THE FARM.

AN UNPASTURED WOOD-LOT RESTOCKIMG ITSELF
Fditor "The Farmer's Advocate":
Herewith I send you a couple of prints from a
negative, giving a view of an unpastured wood-lot hegative, giving a view of an unpastured wood-lot on
the farm of Mr. E. Guest. Middlesex Co. Stan been kept out of this wood-lot for from eight to ten cears. The owner informs me that at one time they contemplated selling the wood, but are very glad now Under such was not carried out. Under such ideal natural conditions as to soil
noisture. etc., the growth of the young trees is quite

There are many farms throughout the country from
which the wood-lot is rapidly disappearing. If the owners could be induced to preserve the wood-l the fencing put stock and restoring natural conditions, in a few years they would have reason to congratulate themselves on having avoided a serious mistake, and conferred a blessing on the community at large.
Middlesex Co., Ont.

SPLIT - LOG DRAG BEATS THE OLD LEVELLER Editor "The Farmer's Advocate ffect that a statement by a Quebec writer to the ffect that in his opinion the style of scraper they use in his locality is more suitable for clay roads than the split-log
drag. Now, I would dikag. Now, Io would gentleman, or any others who are skeptical as to the relative merits of the split-log drag and
the old-style read scraper, just construct a drag and use it as per diree-
tions on the worst tions on the worst clay
road you can find, and I am sure you will chang your mind, for this is where it shines. We have constructed and used a
split-log drag on a clay road that has been scraped for years with just the style of scraper
represented, and of recent years, with a much more improved scraper described. We have to described. We have to tical ourselves thought we would give 1906, for 1,500 guineas. at results. At the very fre greatly surprised much better job than we ever didempt we didh the old
style scraper, and with style scraper, and with only one team, whereal
we had to use two before, and wait till we should have been seeding. People and wait till we should ing roads just at the beginning of seeding. The split-log drag can be used-in fact, must be usedstill on account of too much moisture. The thing looks trifling, but just try it. There is scarcoly any expense in connection therewith. is scarcely
Essex Co., Ont.

PROTECTING SEED CORM FROM CROWS


An Unpastured Wood-1 ot Reseeding Itself.
will soon be around again, I merewith
send you my meth-
od, which proved send you my meth-
od, which proved
successful last yemr, successful last yemr,
to prevent crows
from eating or pull ing up the seed pullin springtime, as in former years. Last
spring, a couple of soring, a couple of
days before planting,
I took about a pint I took about a pint of coal tar and heat-
ed it to almost ed it to almost, a
boiling point, which
made made it very thin. After dumping eur corn in some large
tuts, one end of a stick was end of a
the hot tar in the was dipped in
hot tar, then
used to stir the corn for several minutes,
which just gave the corn enough tar the
darken the - darken the color a - little, but at the strong tar odor. After
strposing
exher exposing the corn, to
the sun for a few the sun for a few
hours, it was com-
pletely dry, and could pletely dry, and could
be run through the
seeder as well rapid, much mure so than that of ornamental trees tion; and, after being treated in this this preparaare almost entirely sugar maple, and vary from eight or destroyed by the or crows. of corn they walk, pulled
to twenty feet in theight with to twenty feet in height, with a diameter of to 2 go near it, although last summen our dimply did not inches, besides smaller trees down to seedlings just was several hundred yards from our dwelling
above the ground. above the ground.
It is a beautiful place about the 24 th of May, but $\begin{aligned} & \text { house, while in the two former seasons thelling } \\ & \text { was planted in the immediate vicinity }\end{aligned}$ such sentimental considerations do not appeal to the ing house and buildings, where we had to replant
majority. There are many other arguments, however majority. There are many other arguments, however, parts of the field a second time owing to the the with which such can be met, ard I know Mr. Guest
considers himself well repaid for maintaining such a considers himself well repaid for maintaining such a
wood-lot upon his farm crows pulling out every blade time ofing to the some places, although for yards at a stretch in
where them, leaving some of the dead ones lying etaborate sustem would have sufficed but there is where they were shot, while others were hung up no doubt the filling with gravel helped there is on stakes, fence posts, etc., as well as other
scarecrows displayed in different shapes and forms In spite of all this, we different shapes and forms. corn crop every year
I may add that it is important to heat the tar hot, and stir the corn thoroughly with a stick or corncob aiter being dipped in it, and the corn
left in shallow lots, exposed to the sun or wind for a few hours to dry, otherwise the corn might stick together and not go through the seeder corn-planter evenly.

## TRY SOME "EMMER

Editor "The Farmer's Advocat
I notice that emmer is not generally grow throughout the country. This spring grain, we believe, should receive more attention. We have been growing it now for four years, and find it measured bushels the ther us sixty or other rough grain it makes an excellent chop either for cattle or hogs
Emmer requires the same cultivation as our ordinary spring-grain crops. It, however, has the advantage that it does almost as well sown late as sown early. One bushel of seed per acre, we give an ideal nurse crop for clover or grass seed Remember that emmer is not speltz. It is supe ior in almost every respect. It trust, Mr. Editor that you will advise the many readers of you
valuable paper to give emmer a, trial this spring Middlesex Co., Ont.
M. J. WATTERS.

ALFALFA SEEDING IN JULY The Farmer's Advocat
Quite a number of your subscribers are asking for information about alfalfa. I have been growing it fo eevaral years, and have tried many ways, seeding i bushel of barley as a nurse crop, and sowing it alone at various dates. My soil is a rich sandy loam gravel subsoil, and I am firmly convinced that for me the best plan is to fall-plow and thoroughly cultivate until about first of July, then sow 20 lbs . per acre. This method thoroughly cleans soil of all grass and weeds, "and conserves abundance of moisture, and the ground is very mellow. Under similar conditions, on the 4th of July last I sowed a patch, and just seven weeks after went to clip it with mower, and found it
14 to 16 inches in height, and had to cure it I tried some nitro-culture on part of a field, but got no benefit whatever ; however, if anyone has any doubt it is not much expense nor trouble to try
Select a small piece of ground wher
Select a small piece of ground where water will not when seed is sown, sow plenty, and you will of tilth you will want more of. It is not a plant for building up a poor piece of land, as our common red clover, produce more nutritious food than any other that we
are growing at this present time. F.. M. LEWIS. are [Note.-We are ery glad indeed to perience in sowing alfalfa in midsummer. In the
United States a good deal has been said United States a good deal has been said of recent years about sowing in August, and we have thought
possibly summer seeding would be successful in Canada, but scarcely felt warranted in recommending it. Will others who have tried it kindly communicate their experience? As for the nitro-culture, it is plain that the
land on this farm does not require it, being already inoculated. There are some cases, however, where

## WHAT UNDERDRAINAGE WILL DO FOR ROADS

 We must not let our exploitation of the split-og-drag idea obscure the importance of other means of road-maintenance. The drag will do wonders, but it is not everything. There are they are underdrained, and many others that could be improved more economically in this way than in any other.About a year ago (see "The Farmur" cate," May 31, 1906, page the Wellington Road, south of the City Which used to be almost impassable The bog-hole was done away with by a
drain up the center of the road, and th
drain up the center of the road, and th
has been good ever since, Inquiry revea
the draining was done by the city cor
the draining was years ago, and as the monicipal funds
A large tile was laid some six feet belo was spongy, and in such condition that surface would trot a buggy horse over it. In the center illustration, two or three loads of cimders had beon used to fill a bog hole, and the gameral hat
dition was such as to aftoril in munt

## THE DAIRY

 almost as much as the tile. The results have been a matter of comment to everyboy usingthat highway. O a this One day this spring, April 5th, by which time
most roads in the wicinity had fairly well dried up, a member of " The Farmer's Advocate, ", staft took out his camera and photographed the underdrained piece, which is a gentle grade on the
south side of a hollow south side of a hollow. By way of contrast, the
camera was then turned north and camera was then turned north, and a snap taken
of the opposite slope. The results are indicater by the accompanying engravings, but the reader must bear in mird that it is impossible to show depth of mud with a camera. A road with a few
shallow ruts looks nearly as bad in a picture as one that is badly cut up. Notwithstanding this,
the difference is brought out fairly well. The


Cut. 1.-An Underdrained Road in April.
anderdrained road, we are told, has been fairly good at all times this spring, and on the day of ior one shallow was in excellent condition, except been there if there were not, which would not hate rown there is not, the tough sod shoulders being The opposite slope, shown in the contrast pite ure, used to be considered quite good by com parison, but this spring was at times well impassable. Even the day we saw it water was
standing in the holes and ruts, some of which

2.-Underdrainage Needed. The photo from which his engraving was made was taken the same day
as that reproduced in Cut 1. This piece of road is just north of the other, and until
the other was underdrained this was much
which is a different
some years ago. yeme years ago. That we may cal is very similar to a bo fter a number of days it will gather and and In the treatment of this,
squeezing this lump before something, in this respect something, in this respect, like a boil. I hen,
when it breaks, or is ready to broak. the putrid stuff will come out, and the
a boil, that comes irom it. pread from cow to cow, and the 1est way to keet in out is the use disinfectants strongly about, around the udder for
very nervous cows, makes thery tonchy to malk.
Some cows it does not bother at all, heir milk yield. The treatment for a shrunken quarter, as
recommended by the Nelraska Experimental Staion, of pumping it with a bicycle pump, might
in some cases be oi henefit. If the trouble with he udder has been so serious as to make the ac-
ive parts of that udder practically dead, any treatment is not likely to be very effective. We
have known cases, though, where a cow has neary lost part of her udder, and has had this damthe cow a couple of weeks before she freshens with and lringing it to milk before the and stripping the udder have started. In some cases this has mpossible to bring the part of the udder back t fe again. It all depends, seemingly, upon how rdder was in an inflamed state. rouble is to act at once. (iarget and similar troubles can be scattered-warded off-by giving
immediately on the appearance a big dose of
Epsom salts. If a cow trembles-appears in pain, Epsom salts. If a cow trembles-appears in pain,
with no apparent cause-it's garget coming, and yive her a purge at once. Prevention is better ALEX. HLME, Northumberland Co., Ont.ters are on the increase, owing to several causes,
The dairy cows are kept under higher pressure s to feed, close stabling, etc. Their blood is
ootter, and, under the high pressure to produce to their utmost capacity, they are more susceptble to changes of weather, surroundings, or other
conditions. The greatest care and attention should nditions. The greatest care dnd amptoms shour be given them to note the first symptoms of any
of these troubles; in fact, to foresee the causes of
these troubles, as only the born cattleman can. these troubles, as only the born cattleman can.
Do not allow them in draughts or cold weather, nd keep them clean. We do not know from exJUDGMENT FALLIBLE WITHOUT FIGURES We have been keeping individual cow records not only which were the best and poorest cows ust how far wrong we might be in our judgment if each cow's production. We wished, also, to
nd out the difference, if any, in total yield between cows which milk well for a short season For weighing, we used a spring balance, proured from the Department of Agriculture, and
the weights were recorded upon milk sheets prevared and furnished free by the Department. It the balance is hung in a convenient place in the
stable, very little time indeed need be lost in taking the weights, und, after a milker has become
familiar with the usual yields of his cows he can familiar with the usual yields of his cows he can
milk and weigh several beiore stopping to record the weights.
As a result of one season's work, I am con-
nced that no one can judge the merits of his ws individually without keeping actuan reconds, ment of a cory's total yield by guessing at the
memount in the pail, and that the cow that keeps
6




of profit has been reached; and so long as an frew ; C. W. Norvell, Morrisburg L. A. Zuefelt, Chesterville Aublow, Kingsto

Buro, Corn At a meeting held at Guelph Ontario were fully discussed, and e Chiei Instructo Jas. Burgess, Listowel, Listow . Hart, Woodstock, Woodstock McKay, St. Mary's, Stratiord
Travis, Tillsonburg, Simcoe Distr Cayuga, Brantford District; W. Hamilton. Lon don, London and Western District; Fred Dean it. Mary's, Eatern Creameries , .Mac. Robinson Chief Instru Eastern Creameries. Frank Hern included in any of the above groups.

## A COMPREHENSIVE ARGUMEN

The keeping of individual milk records is subject which has not received the attention by armers that that they think it is not necessary, and that they think they know what their cows are doing, and need no further proof. 1 have talked to men on they the time to weigh the milk from each cow, and say they could not be bothered with such nonsay the
sense.
I st I started to weigh the milk from my cows be ing for me, or I know whether they were work myself, which I found to be the case with some of them, and not always the suspected one. By weighing the milk from each, cow, I have learned that, whereas 1 thought I knew which
were the best, in fact I knew very little abou them. We had some cows that when they freshened would do very well, but after a few month
would shrink in their milk, but we thought, course, that they were all right because they filled the pail at the start. We did not take into account what it meant for them to shrink later on, but when we put them to the test by the
scale then we had our eyes opened to the fact that we had deceived ourselves. Another cow, which did not start out with a very great, flow of milk,
but which kept up pretty evenly all through the season, came out at the end with about 2,000 pounds of milk more to her credit than the other that gave such a great promise. It takes th scale to pick them out ; figures do not lie. age for the herd was comparatively low; but by the searchlight of individual milk records we have in a few years, raised the average of our herd by ,500 pounds per cow, ing that at 80 cents per hundred pounds, I find hat I have, for one season alone, $\$ 120$ in hard ash as a result of keeping records. utcher ; keep the good ones and raise their heifer calves; buy a good one when you can, and you will soon raise your average. care of his herd as he knows how? Decidedly, yes. By referring to his record he finds how each cow responds to feed, and it is up to him flow, so increase the feed, and find how much she will stand. Some will take more than others some will respond to feed and put the product in flow but put on lesh and that is not want in a dairy cow. So, in conclusion would say, find out what your cows are doing-
whether they are paying or not. The surest way
to do that is by keeping an individual record. to do that is by keeping an individual record.
Perth Co., Ont. THOMAS JOHNSON.

WORKING OUT THE SUNDAY CHEESEMAKIIG PROBLEM. The letter from J. G. Shearer, published in
the April 11th "Farmer's Advocate." calls atten-
tion to the application of the new Lord's Day tion to the application of the new Lord's Day Act to cheese-factory management. Under "work
of necessity and mercy " not prohibited, are some two dozen classes specified, one of which (m) reads : "The caring for milk, cheese and live animals, and the unloading of and caring for ny point during the Lord's Day." The fow ang interpretive clause is given by the legal ading interpretive clause is given by
visers of the Lord's Day Alliance

Hauling milk to factories and making chease or butter, even out of Saturday night's milk,
not here allowed, only 'caring for the things named."
Under the Provincial Act emplovees are liable Under the Provincial Act employees are liable,
but under the new Dominion Act, Mr.. Shearen pointed out that joint-stock companies or individual owners are subiect to heavv penalties for violation. The chief trouble is with the Satur-
day night's milk, taken in that evening. The day night's milk, taken in that evening. The
process of making it into cheese begins thet process of making it into cheese begins tha
night, and is completed some time during Sun
day. To do away with this work, and to secure
the workers in the factory their
Shea,
Shewrerkers in the factory their Day of Rest, Mr.
(a) The Sats three plans; for by the farmer with cold water, ice be cared the farm, and taken to the factory Monday morning. At this date ice is not available, and in weather, to keep the milk sweet, even hot, muggy water, is exceedingly difficult, though it has been the extra day's milk to the provision for drawing lactory and vat space for making it and extra day. Farmers and those wiking it up on Mon age to handle the extra Sunday morning's milk night's milk also adds much to include saturday (b) Factories to put in butter plant, crea Saturday night's milk, and butter plant, cream
the following it into butter owners of songe very, sayy about Tuesday. The of Harrietsville, Ont., adopt this plan and re port it very satisfactory, as it furnishes the patrons with their butter, and relieves the facthe maker or assistants to understand requires making, and adds to the work of salesmbuttersecretary. The former himsir night's milk into butter. Where he tarmer himself matay arator or other creaming facilities, and a small herd of cows, this is not difficult to do, but with large herds, such as many of our dairymen Solution (b) appears to be the most feasible and satisfactory of the problem which confronts the factory-owner or company, who are directly responsible under the Act, and doubtless the will be disposed to allow reasonable authorities factory mannugement to be readjusted to the situar tion under the Act. The experience of dairymen in solving the difficulties referred to should be of
service.

## POULTRY.

hOT - WATER INCUBATION
Editor "The Farmer's Advocate
reprinted from Farm Poultry an article heades 530 , . yo eral Directions for Operating an Incubator." Tha tain vital facts. It is, seemingly, It suppresses of lofty disregard for the experiene colved in a ton isymen. In substance and in implication, that articl plea in behalf of a certain make of hot-air indor, and a As I cannot believe that "'The Farmer's Advocate, wifully approves injustice or propagates error, I must
assume that you printed this article as the mere ex.
pression of pression of an individual opinion, and that you do not reasonably expect you to accord feel that I may same publicity and emphasis you granted the fallacies;
and to those facts In am a practical poultryman, interested financially Also, I am identified with the corporation which builds the Peerless Hot-water Incubators; and in your adver-
tising columns-not through the incenious tising columns-not through the ingenious and inex-
pensive method of ", ieneral Ihections," printed as
reading matter-the reading matter-that corporation tells in plain English
the provable facts about its product. In those facts,
and in our inculator and in our incubator, thousands of successful poultry-
men believe implicitly, and they so believe for the best
of reasons-it has helped them make But, if we are to credit the article you reprint, the
hot-water incubator is a failure, and the hot-air ma-
chine the sheet-anchor of artificial incuotion tor
 access to oyster-shell, and have never since had any near ty, frequent, prompt summer weutting anked orchands
bother. Keep constantly before them.
 In thanking you for reply to question re trap- fection from neg netected trees to near bye, a pear orchand asts. I beg to enclose my subscription to trap can cultivated, profity mandandained in good condition and valuable paper. "The Farmer's Advocate", for sary to secure a crop, by thorough winter-blight work
cansuing year, \$150-at paperer without which no no mand prompt summer cutting and sprout removal. The
C'anadian home is complote






that hot-water heat is even heat (and the only even that it was not enough to simply work it was for found
heat possible for an incubator), that hot-water heat is an
safe heat (and the only ard looking for bighted limbs, but each assistant tion). that the ventilation, the heat regulation and the a thoroctor was provided with a gouge or chisel, and
question of the trunk of every tree was tically only in the Peerless-and not in any hot-air $\begin{gathered}\text { which should are the results and cond conclusions reached. } \\ \text { hatching machine-and- } \\ \text { Does it not seem to you that the advocerers in Ontario and other }\end{gathered}$

 Frequently the question in winter the less will be the infection next spring, and eggs, and a cure? I I cured a flock of hens that were
eater 3. That so long as sources of infection remain over
ago for ten years; and in its whole successful history
not one or its users has suffered one cents loss thro
leaknge leakage. But it may leakered one cent's loss throug
says her of the articl says he once had a hot-water incubator which did leal
ergo, every hot-water incubator leaks. Wi did amoze every hot-water incubator leaks. To such an
amazing postulate, I, as a maker of hot-water incu
bators, might reasonably a mag bators, might reasonably enough point out the count
less losses that have resulted cess losses that have resulted from hot-air incubators
catching fire. And I might with equal reason deduce that every hot-air incuhator is a menace.
end honest ino such thing. I know, as every reputable
tween the best of maker does know, that
 go such wide gull of merit exide that we may not
grant the other certain exeellencies. The isswo
ours ours and the hot-air method is one of principle of of
mechanics proveronics. that We maintain, and we have sufficiently efficient, moro economical and radiated warmth is more hatching by difinued ${ }^{\text {h heat }}$ the the hot-uir ustworthy than absy, never by no means Anally settled. It will. probsole to hatch the same lot of egus twice, nor to hatch any two lots of egms by different methods under pre-
cisely jidentical congition dental conditions.
actual comiparison can demonatrasts go, in so far as hot-water method has, deciondyty obviously, arried, prour
aibly, the best of the argument. ficial incubation is primgrily one of even heat, of sim-
plified oueration Plifed operation, and of results, cost as compared with
results produced, dealing results produced, dealing with averages.
Peerless justifed its its name; and it foes the Peerloss justified its name; and it does this on the very
face of the article you reprint. For example In the 9 th paragraph of that article, in the second
column of page 530 the column of page 530, the writer you quate says, re-
ferring to eggs placed in his favorite hotat Cerring to eggs placed in his favorite hot-air incubator
"Those in the center of the egg chamber, where
temperature is elist temperatur is is sentightly of tigher, egy chanmer, where the
source of hent, furthest from the

 late as closely, which is, as 1 understand it, to simu-
the temperay not matural method-in which the temperature is not slightly higher in any part of
the nest. Every bot the nest. Every hot-air incubator has, and must have,
its hot and cold spots. But in our hot-wuter hat hot and cold spots. But in our hot-water incu-
bator the terperaure every where in the hatching
chamber is identical chamber is itemperatiare eve every ithere in the hatching
ing. It cannot help beind be for right tatch ing. It cannot help being so-just as no got-air ma-
chine can help being otherwise. A sain. the article you quote states (paragraph 12 .
3 rd column, page 530 ) that 'there is a period hatch when mosesture is absolutely n necessary, namely, in each
at hatching time., at hatching time.". Doubtless this is true of certain
wrongly-built hot-air machines; and it is true because
the bet the heating methon machines; and it is true because
embryo chick of its mosestincuators so robs the embryo chick of its moisture that extraneous meane
must restore the bulance. But I would remind youn. must restore the balance. But I wourd remind yours
and your readers, that the most eminent authorities on amd your readers, that the most eminent authorities on reached the final conclusion that the egg itself ong a, ino
all the noisture needed to hatch any Iows pronerly That mature needod to hatch any fowl properly.
Thy hat nyy climate, is built wrong, and cannot totct rimht. Our
machine uses no moisture at any stare of hatchit and it has made hatching records which have yet to be
excelled. But, says the writer you quote, a hot-water machine Once leaked. My answer to that- the one possible answer

- -is that the Pearless normal usage. cannot-leas., on page ten or or any
catalogue you will find this nssertedt and Catargue you will find this asserted as follows
nary usarther guarantee this incubator, with ordinary usage to devarantee this incubator, with ordi-
or pipes within tel years trage in the heations tank
or the date below wndor penalty of replatement free of charge, de
objection after the the, under
Remove this oblection after this fashion, cite the fact that the
Teerless method of ventilation has breen dect 1utely perfect by engeineers, and by the actual coldiceash
resultse of practical results of practical poultrymen, add the truth that no
properly-constructed incubator has any need for added moistry-constructed incubator has any need for added
moisure in its hatching; consider that we defnitely

Frequontly the question is askerd ahout hens eatin,
Egys, and a cure ? I cured a flock of hens that wer

APRIL 25,1904
THE ADORNMENT OF RURAL HOMES TREE-PLANTING
Every farm home should be a picture in itself, and may easily be made one. Any person who
has the artistic taste harmoniously to armane trees, shrubs and plants, so as to make a beautiful landscape, a picture in reality, may be truly called an artist, and our country needs more of
such artists. In making the farm home a picsuch artists. In making the farm home a pic-
ture, the lawn and greensward may be looked upon as the canvas on which the picture is placed central feature, and about these the form the
-vines and plants may be artistically grouped and arranged so as to blend with each other in making the whole scene.
It is advisable, in beginning work of this kind, to make a plan on paper of the whole place,
marking the principal objects, such as buildings, rees, etc., as they already stand. The propose improvements and additions may then be indicat ed, and the whole thing carefully worked out on
paper before the actual work of planting begins. paper before the actual work of planting begins. In the preparation of such a plan, all members of the family should be consulted, and they naturally details. This may be done during out of its months, when there is plenty of time to consider it carefully. The more thoroughly the planning is done, the more readily the planting will be acomplished, and the better will be the general e After grading and seeding the lawn and
grounds, the selection of trees and shrubs, and grounds, the selection of trees and shrubs, and
their disposition and arrangement, is the next consideration. In the selection of trees, it is
wise to choose, as a rule, those which naturally grow in the section, and in this particular the list will vary considerably with the different parts of
the Province. As a guide in the selection the Province. As a guide in the selection of
trees, we cannot do better than refer our readers
to the list of to the list of forest trees indigenous to Ontario,
as given in the O. A. C. Bulletin on ". Farm Foras given in the O. A. C. Bulletin on "Farm For-
estry," by Mr. E. J. Zavitz, recently published by the Ontario Department of Agriculture. Ther should be a due proportion of both the evergreens,
which are particularly valuable for their shelter and give a cosy appearance to the place in win-
ter, and the deciduous trees, which give and restful shade in summer , Which give a cool greens generally planted are the spruces, pines and cedars, and there are numerous varieties of each of these. The Norway is the most commonly-
planted spruce, although our native White Spruce planted spruce, although our native White Spruce shelter-belts and wind-breaks about the farm, the spruce is one of the most desirable trees, although
pinee or ceedars mav also be uscd for this purpose, and all may be used with pleasing effect in group-
ing and planting about the buildings. The esing and planting about the buildings. The es
tablishment of a suitable wind-break or shelterbelt on the most exposed sides of the farm, should greens. The trees for this purpose should be set at least eight or ten feet apart to allow for good development, and even at this distance it may be
advisable in time to advisable in time to cut out each calternate tree.
Where the place is much exposed, a double row of trees, eight or ten feet apart, a double row of row alternating with those in the second, makes a stronger break. as additional protection from the prevailing as additional protection from the prevailing
winds, but in this case they need not be arranged in straight lines, as they should lie around the
boundaries of the farm. In proximity to the houndaries of the farm. In proximity to the
buildings, it is better to adopt nature's method of buildings, it is better to adopt nature's method of
planting, and group them as if they had grown planting, and group them as if they had grown
up nat rally, to shelter both dwelling and stables
from the north and west winds from the north and west winds. The most com-
mon mistake made in planting evergreens about mon mistake made in planting evergreens about
the home is to plant them in straight lines on each side oi the front yard, so as to shut it off
from the rest of the place, from the rest of the place. If the natural group-
ing of trees is adopted near the buildings, and
the straight-lina the straight-line planting left to the boundaries
about the place, the general effect will be far more leasing. place, the general effect will be lar mor In the selection of deciduous trees, there is orens. A few of the best of the large trees
or indens, birches and oaks, and, where the climate will admit of it, some of the qut trees, such as wat-
nut. hickory-nut and the sweet chestnut, should be planterd, for the sake of the younger members of the fumily. For roadside planting, the white elm
ant hard maple can hardly be surpassed, and it antel hard maple can hardly be surpassed, and it
gous without saying there should be an unbroken gows without saying there should be an unbroken wholl front of the farm. Im planting trees along
the (indside, it is best to select trees of one kind Ane ndside, it is best to select trees of one kind
and :nake the row as uniform as possible. Uni-
orrity and variety may be attained however, by orr:ty and variety may be attained, however, by
plaxizy maples and elms alternately, although

THE FARMER'S ADVOCATE.
nothing could be finer than an avenue arched with tall specimens of the American White Elm. With
About the buildings, one or two of the largest About the buildings, one or two of the largest-
growing shade trees should be planted, so as to aflord shade to the dwelling from the heat of the midday sun. If they are placed on the south and
west of the house far enough west of the house, far enough away that their their shade may fall upon it, they may and yet that in keeping the fall upon it, they may be effective ten to fifteen degrees cooler than it would be if
the building were exposed to the boiling the building were exposed to the boiling rays of
the sun. When locating trees and shrubs upon


## Maplehurst.

The beautiful home of Lis Woolverton, Grimsby, Ont. $\qquad$
in an adjoining farm, or, it may be, some of the nsightly billboards which are now disfiguring so nuch of the beautiful landscape throughout the ountry. The more oarefully such things are points, the more pleasing will be the outlook from the dwelling and the general view from the roadway looking in upon it.
The matter of procuring trees and the method of planting them, are points upon which
say but little. In many places good tre
joining wood-lot, but' unless they are first-class
upon them, for straight upon them, for trees, with good root development, may be procured so cheaply from wholesale aurserymen that it pays to get good trees, rather ones.
waste time upon poor ones It is a good plan, particularly with evergreens, to purchase quite young trees, not mare than ten or twelve inches in height, and grow them
for a year or two in a home nursery row, and then transplant them to the wind-break or other permanent position
when they have begun to when they have begun to moot and a half or two feet
in height. Even the deciduin height. Even the deciduous trees may be advantage-
ously grown for a year or so ously grown for a year or so
in. the sume way. Where this plan is adopted, there need be
little loss in the final plantittle loss in the final plant
ing, as the transplanting can ing, as he transplanting can nient time, when the weather is suitable.
The best time for transmate is early in spring, al though there is no doubt the weather is suitable und planting is done carefully, weather is
but, as a
planting.

## TRIMMING EVERGREENS.

open lawn in front of the dwelling. This gives an air of breadth and expanse to the place, which, on the, other hand, should not be lost by planting
the trees in straight lines along the edge of the grounds. If trees are grouped together, or ar ranged as naturally as possible around the buildings and at the sides of the lawn, the naturalness so gained is most pleasing. Care should be tak-
en in disposing trees and shrubs about the place to avoid obstructing the best views from the principal windows of the house. In fact, the best arrangement of the trees may be made by view-
ing the place from the veranda or living-rooms


View from Front Veranda.
Note the open lawn in front of the house and grouping of the trees and
shrubs at the sides. These locusts are stately and picturesoue
of the house, and keeping in mind what the effect
will be when the trees are full-grown. It will file be when the trees are full-grown. It with ing, so that through the vistas a glimpse may be caught of some beautiful scene beyond the conbe possible to get a view of some stately tree in an adjoining pasture, in another a glimpse of a distant wooded hillside, or perhaps a stretch of river or lake expanse; or, in another, even a neighbor's friendly light at night. In like man-
ner, it may be desirable to hide from view some ner, it may bect, such as a dilapidated building
season, the terminal buds,
with their natural winter
protection protection, are removed and there is danger of the wood being winter, forgotten that they do not have dormant buds as do the deciduous trees, so that wherever pruning back is done, at least an inch of the last season's growth should be left, for it is only uponthis there are buds to continue the season's wood, and all of the leaves removed, there can be no further growth, and the branch soon dies.
This is one main reason for the unsightly This is one main reason for the unsightly hedges. O. A. C., Guelph. with dead patches of wood.
H. L. HUTT.

KEROSENE EMULSION AND OTHER SPRAY Mixtures made with flour Our horticultural friends who are on the alert for improved methods of spraying, will read with
much interest the following two articles, one by
W. Mer much interest the following two articles, one
W. P. Macoun, Horticulturist, Central Expe
mental Farm, Ottawa, the other by Frank mental Farm, Ottawa, the other by Frank T.
Shut, Chemist at the Farm. In publishing
thest, thesse, we are anxious not to contuse the amateur, who is advised to stick to the well-known,
reliable formule (see issue March 28th), but those with some experience in spraying are requested to give the flour-kerosene mixture and the kerosene-
W. T. Macoun, Horticulturist. Central Exper mental Farm, Ottawa.-It having been discovered Farm that kerosene emulsion could be made with flour instead of soap for holding the kerosene in
suspension, this form oi emulsion was cesstully in a practical way in 1905 and 1906 . As the emulsion made in this way is much easier to make than with soap, its was desirable to learn aphis, as soap, in addition to its value in holding the kerosene in emulsion, is an insecticide itselt and without it more kerosene might be required.
The following percentages of kerosene were, thereThe following percentages of kerosene were, there-
fore, used on July $16 \mathrm{th}, 1906$, in spraying apple tore, used on July 16th, 1906, in spraying apple
infested with aphis. Percentages
used, approximately used, approximately, 6 per cent., 7 is per cent., 9
per cent., 11 per cent. The following notes were made
${ }_{6}$ Kerosene emulsion with
6 per cent. Kerosene-Aphides not affected
$7 \pm$
$7 \pm$ per cent. kerosene-Aphides not affected
9 per cent. kerosene-Not so
9 per cent. kerosene-Not so effective as 11 per cent. 10 per cent. kerosene-Practically all
stroyed.

In the kerosene emulsion made with soap scarcely 7 per cent. kerosene is recommended. n any case. Apple trees in nursery were spraye being nearly all killed good results, the insect Plum trees were sprayed July 12th with 11 per-cent. kerosene emulsion. Many aphides wer Exped, without apparent injury to the trees. cal Laboratories with Mr. Frank T. Shutt Chemist, who discovered mr. Frank T. Shutt making kerosene emulsion, to determine the ertain quantities of kerosene. Experiments han also been tried in different methods of preparin the emulsion and the amount of churning neces ary. This work being dith small quanti when made by the harrel dasher was made by nailing two pieces of wood crosswise to one end of a pole, the other
end being used as a handle. A piece of sacking
with a hole in the center with a hole in the center for the pole to go prevented the emulsion from splashing out of the
To make an emulsion having approximately 11 per cent. of kerosene (ory, to be exact, $1111-9$ per
cent.), it was necessary to have five gallons oil o forty gallons of water.
strated that a satisfactory, it was clearly demonapproximately 11 per cent. of kerosene, containing made by using only 5 pounds of floure to the bar-
rel ; in other words, only 5 pounds rel, in other words, only 5 pounds of flour are
necessary, when an emulsion is formed, to hold
in suspension 5 gallons of kerreser in suspension 5 gallons of kerosere for two hours.
A poor grade of flour answers the purpose well. be :
mixtures appears so satisiactory that it will be given a trial in the orchards at the central be perimental Farm this year. The mixture is made by churning the kerosene with Bordeaux mixture,
flour being added before churning at the ratur flour being added before churning at the rate o
4 ounces to each quart of kerosene which has be used. It will be necessary, in preparing by the
barrel, to do the barrel. to do. the churning with about half the necessary amount of water, in order that the mix-
ture will not splash ture will not splash over, adding the requisite sion and Bordeaux mixture. made in small quan tities. has remained for five weeks without any appreciable separation of kerosene. The mixture ily again. While this has not been tested sufficiently to recommend unreservedly, it give

Frank T Shutt M perimental Farms:-In an investigation carried on about a year and a half ago, to ascertain the emulsifying effect of certain materials-and more in the prep lime, as advocated by Prof. Closered to preparation of kerosene emulsion, it occur purpose of holding coal oil in suspension. Ex periments proved this to be the case, a very satis factory emulsion for immediate use resulting in perfect suspension one quart of coal oil. The emulsion is, simply and easily made, as follows : The requisite amount, of coul oil (kerosene) is
poured into the pail or barrel the proportion of 8 ounces to 1 quart of coal oil, the mass thoroughly stirred and the water added- 2 gallons for every stirred and the water of coal oil. The
whole is then vigorosly whole is then vigorously churned, say, for five minutes, by means of a pump and coarse nozzle,
or a wooden paddle or dasher, as used in upright churns, and the emulsion is ready for in upe. The
spray is smonth spray is smooth, easily atomized, and does not
clog the nozzle. During the last few weeks, this investigation Macoun, has been extended to the preparation with flour of certain sprays that might prove use washes to be employed on dormant wood only, and sprays that would combine the proper-
ties of Bordeaux mixture and kerosene emulsion ties of Bordeaux mixture and kerosene emulsion
for summer use. The following notes give briefly information regarding the emulsiotes give briefly been thought might be serviceable to the fruit grower: WINTER WASHES.

## Bluestone. One Per Cent



Mix the four with the kerosene, as hefore water, pour about one being dissolved in the exact quantity is a matter of no solution (the the kerosene-flour mixture, and churn for five minutes. Pour in the remainder of the blueuse. On standing, this spray separates into two stirring. Free oil does not appear, if the churn-"B"'-Caustic Soda, $2 \%$; Kerosene, $10 \%$

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Caustic s
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on the flour to the action of the causti on the flour, making a viscous fluid, wh
eminently adapted for holding the coal oil pension.

## SUMMER SPRAYS

## rmula <br> ${ }^{\text {Bluest }}$ <br> Kime ....

per cent. kerosene. Bordeaux mixture, phis 10 To the freshly-slaked lime add one-half follows volume of water and pour in the requisite amount
of coal oil, emulsify for five minutes, then pour in the remainder of the water, in which the pour stone has been dissolved, and stir well for one minute. Though, on standing, a thick creamy ayer forms, there is no separation of oil for a least 24 hours, and simple stirring is all that is about a perfect mixture days of making, to bring


This, it will be observed, is the Bordeaux-kerodiluted, slaked lime the kerosene flour. To the flour is added, and the whosle emulsified for five minutes; the solution of bluestone (approximateIy one-half of the total volume) is then poured in, ly stable emulsion, no free oil showing after five weeks. The thick layer that has separated at the end of this period, and which contained the the readily mixed again, forming a perfect emulsion, and coal spay, furnishing at once Bordeaux mixture -one simply made and fungicide and insecticide ity, this formula gives great promise. Certainly from the standpoint of preparation and the lab-

TRELLISING TOMATOES
Perhaps the easiest way to keep tomatoes off the ground is to spread several folds of paper under the bunches of fruit. The hoop, supported by three stakes, is quite good; also the ladder Tying to stakes does not either side of the row. good chances, unless pruning is also practiced Mulching with straw, or serves moisture, thus prolonging bearing seaso and increasing the yield, but also preatly increas ing rot in the fruit. After all, perhaps the most on either side of the to nail scantling to stakes and to lay strips across a theot from the ground, spread over. This allows the plant and fruit the best possible development, and the outfit is easily King's Co., N. S. H. W. Woodworth. [Note. - Where tomatoes are grown on a large
suale out of doors, the vines are very rarely trellised or supported, the vines are very rarely trel tised or supported in any way, but for the ama-
teur's garden they may be kept off the ground ly various means, such as Mr. Woodworth sug
gosts gests. The one advantage of keeping the vines near the ground is that they receive more of the
soil heat during the night, when the atmospher cools off, and are thus enabled to mature their ruit earlier than if kept away from the ground hy supports of any kind. There is often a differthe soil and the air a foot or two from the surdace of the ground during cool night after warm he fact that the This can be accounted for from the dav, and does not cool off so readily as the matoes as close to the advantage of keeping to they require all the heat they oan get to enable
them to mature their crop in good season. Rather than put the vines crop in good season. Rather spread the vines out in every direction from the enter. so that they fie flat upon the ground, and
get all the soil heat possible.-H. L. Hutt,

There is no hope of making anything out of the neglected apple or making anything out of til we get rid of the idea that a crop of hay, Erain or roots may be grown in it as well as not.

When the emulsion is mot tol li. usion at one or within two hours, twice the Mantity of flour
should be used, with which quantity the oil will
not separate in twelve hours thm mine Formula--Formula recommmented for kerosene
emulsion made with flour, for dost onving aphis emulsion made with flour, for destroving aphis on
apple and plum trees: Five pounds flour (or 10
pounds, if emulsion is not usen within 5 gallons kerosene, 40 gallons wat 0 P. Pour the kerosene in the
flour and stir thoroughly, then wint be noticed that these three emmalsions
 Expmiments "wo triod recently in conim...
with lrank T: Shut 'hemist to determin. with rank T. Shun
satisfactury Borden
son could be made ,


THE FARM BULLETIN. ONTARIO'S NEW fROFESSOR OF FORESTRY p. E. ISLAND SEED SHOW AND INSTITUTE


Prof. B. E. Fernow
Appointed to the Chair of Forestry, Toronto University ican Institute of Mining Engineers; an honorary of the Scotch Arboricultural Association; of the Accad-
emy of Science of St. Petersburg; of the Yennsylvania emy of Science of St. Petersburg; of the Pennsylvania
Forestry Association, and an active member of various scientific societies of the United States. He is the
Ruther
aut author of Economics of Forestry, a full treatment
the subject, published by T. Y. Crowell \& Co., N. Y. the subject, published by T. Yook on History of For ests and Forestry in the United States and other countries, and is publishing the Forestry Quarterly, the only strictly professional journal of forestry in the
United States. He has also been the author of many official reports. bulletins and other publications of pro
fessional or propogandist character, establishing the science of forestry in the United States. In him Canadian forestry ${ }^{2}$

## A GOOD LOCAL HORSE SHOW

$\qquad$ the Village of Bright, Oxford Co., Ont., on Friday, very favorably upon it. The country surrounding Bright is recognized as one of the best districts in the
Province from which to select draft horses, and credit should be given to the enterprising horsemen of the
village, in their efforts to advance the cause by carrying out such a successful show. It was manifest that the heavy breeds take first place, and among the sires
exhibited they will have at least one grand model

THE WOODSTOCK CLYDESDALE SALE The joint sale of imported Clydesdale fillies, property Mesio. io A sith Butler stock, Ont., on that date. There was a very large attendance of farmers from many nd Western Ontario, and a few orders The day, was uncomfortably chilly, but the crowd stay
with the sale from start to finish, and Captain Rob as salesman, was in his best form, and dispos
of the 53 catalogued in about two hours an at an average of $\$ 2 \tau 7$, which was, perhaps, result as could be expected, considering that many the fillies were in quite thin and rough condition, and a number of them under a year old. The majorit
were of a very good class, however, and those in bes were of a very good class, however, and those in bes
condition were promptly taken at good prices, the highest price being $\$ 500$ for the beautiful brown flly, Royal Madge, coming three, and sired by Royal
Favorite (10630). She was taken by Mr. R. M. Favorite (10630). She was taken by Mr. R. M.
Holtby, of Manchester, Ont.; four others selling for $\$ 400$ to $\$ 435$ each. Following is the sale list.
Lady Elgin, foaled 1905 ; Jos. Boyle, Woodstock. $\$ 485$ Royal Madge, $1904 ;$ R. M. Holtby, Manchester..... 500 Lady Kildrochat, 1904; Jas. Wilson \& Son,
Fergus ........ ............................................ 410 Nan, 1904 ; R. M. Holtby .................................... 410 Flora McCohn, 1904; Wm. Parkinson, Jarvis........ 82
Susy of Crawforston, 1905 ; Walter Schell, Wood-. Lady Adams, 1904 ; R. M. Holtby ........................ ${ }^{35}$ Miss Guild, 1902 ; R. M. Holtby...........................
Lady II. of Dendufty, 1905; W. Johnston, Inger
 Eva Todd, 1905 ; w. Johnston ................... Nellie MacIntyre, 1904 ; A. W. Harwood, Hickso
Argyle Maid, 1908 ; J. Balder, Carluke Argyle Maid, 1906 ; J. B. Calder, Carluke
Islay Lass, 1906 ; Jas. Ogram, Linwood. Kippen Lass, 1905 ; D. McKinnon.........................
Maid of Boquhan, 1905 ; A. Turnbull, Branston. Maid of Boquhan, 1905 ; A. Turnbull, Bra
Lady Fife, 1905 ; Hunter Bros., Drumbo....

Ladly Sterling, 1904, W. Johnston
Lardy Hesketh, $1905 ;$
ady Austen, 1906 ; B. Calder .
Lady Austen, 1906 ; J. B. Calder ..
Woodend Annie, 1904; M. McBurney
irsula, 1905; Andrew Douglas, Strathroy....
Tossie, 1906 ; J. M. Johnston, Springford.. olly Crawford, 1904; W. Prouse, M.t. Elgin........
L.ily Webster, 1905 ; Walter Schel

Niobe, 1905 ; Jas. Wilson \& Son
ady Arundel, 1905 ; Wm. Cade, St. Mary's...
geria, 1905 ; Hunter Bros.
Black Susie, 1905 ; J. Chapman
Fanny III., 1905; Walter Schell ............
Henrietta, 1905 ; Wm. McFarden, Fergus ................
Sally McKnaughton, 1905 ; G. D. Fletcher, Bink
:iven, 1905 ; J. Innes, Woodstock
Lady Butler, 1904; W. Prouse
Miss Willoy, 1904; $;$ T. West. ........ Woodstock
Miss Wirroy, 1904; T. West. Woodstock ..............
Lady Drumbrectlan, 190E; W. Frouse .............
Man. ................................... .......... .........
Broadholm Lily, 19005; J. W. Johnston
Whitehills Princess, 1905 ; J. W. Johnston
Whitehill's Princess, $1905 ;$ Innes, Brooksdale
Belle of Broadcarse, 1904; Walter Schell ...
Kate Stewart, 1904 ; Hunter Bros.................
Bessie of Moor Row, 1904 ; E. Robson, Ilderton.. Waterside Queen, 1897 ; D. McBurney, Embro.........
Peg. 1903 ; W. A. Walker, Carnegie .................. 52 fillies sold for $\$ 14,480$; average, $\$ 277.50$

ROYAL AGRICULTURAL SOCIETY'S SHOW
The annual show of the Royal Agricultural Society of England will this year be held at Lincoln; from of the largest shows which has ever been held. The poultry, farm aind dairy produce, etc., totals to 28,866, and a record entry is anticipated. The implement, and heavy machinery section will also, no doubt, recive
good support. Several new features of interest to agriculturists are being introduced, and the show will be well worthy of a visit. For reaching Lincoln from London, the Great Northern Railway Company's route
is the quickest. Their station in London (King's is the quickest. Their station in London (King's of the several tube railways, nan their station in Lin-
coln is not only very convenient for the show, but also coln is not only very convenient for the show, but also
for the Cathedral, and other interesting places in this old Roman City. Near to Lincoln is the inland springs, and there are other attractions in the neighborhood.

State Assembly has passed a bill
alberta breeders' meetings and show the Alberta Horse-broeders ${ }^{\text {In }}$ thi the annual meetings
 ciations were held in Calgary. The annual horse ehow,
tat-tocke show and bull show and sale was held the
same Stamo weok also ind buil
The Horso bre Coarg.
The Horse-breederse A.s.sciation met on April 1 1st,
Prosident J. A. Turner presiding.
a resolution to me meeting passed a resolution to aurner presiding. The meeting passed
Anoo.l and another mer memorith the Nation
and
 anter the Ontarions tinter Fair their an anual Guelph. $\begin{aligned} & \text { meetings just } \\ & \text { The election }\end{aligned}$
 A. Turner, Calgary; Vice-President, D. Cargill, Seven
Perraons ; 2nd Vice President, D. Thorburn, Davistory Socrieary. .. .. Richardson, Calgary.
the the horse show, Clydesdales were conspicuously in
majority. $A$ few Shires and Percherons mere the majority. A few Shires and Percherons were
shown, and a strong showing of Hackneys Stan shown, and a strong showing of Hackneys, Standard-
breds and Thoroughbreds was made. Mry. John Gardhouse, Hightield, Ont., was the judge, and gave general satistaction in his was ards. Juage, and gave gen-
agod sivde stallions the imported four-year-olion, Con-


 Jones' Gold Medal tird. The contest for the prize
for the best heavy-drart, stallion any age was between
the clydesdale, Consul, and the shirage
 Clydesoale eventually winning. The Canadian CIydes dale Association gave prizes for the beost Clydesdale
stallion tred in Canda. the frst award ging to Charming Prince, second to Turner's Everard's Prince, and third to Moooies's Exalted. Mr. Moodie's Arince,
was the winiity Was the winning Hackney stallion, Conneil's Alert being
socond, and Hoodley's Glenly on (iump.) third. mocond and Hoodiey's Glenlyon (imp.). third. stock, was in the hands of Mr. A. W. Smith, of Maple Lodge, Ont.. who has been in alberta all winter re-
gaining his health. gaining his health. The classes of sale bulls were
largo and required exceptional juagment to place them satisfactorily, and the fact that the prizewimners most cases afterwards brought the highest prices in the
sale speaks for the samncity of the sale speaks for the sagacity of the judge.
There were some one hundred and fity,
 grand champion wasses the red senior yearling, Farmer
bred and shown and and
went to the herd of $P$. M. Bredt. Regina $\$ 170$, and In Herefords the championship went Year-old A American-bred bull. Hamilton, shown by S. M.
Mace, Pekkisko. Five ot Mace, Pekisko. Five of the prizewinning bulls in this
class in the sale brought from $\$ 100$ to $\$ 135$ each. There was only one class for Aberden-Angus bulls, Che frrst prize going to Lew Hutchinson's two-year-old,
Black Beaver Black Beaver; second to Jas. McNichol's Blackralds,
amd third to Wm. Greer's Cant and thind to Wm. Greer's Canton Don. The four bulls
of this breed sold averaged 873 .
 and 120 Shorthorns, 875 each.
 the President, Mr. R. K. Bennett, presidin. The The
Secretary, Mr. E. L. R. Richardson, reported a steady in crease in the average price for bulls at the sales 1 ro
1901 to 1900 price for 1908 , from $\$ 85$ to $\$ 108$, and of the highest price for a single animal, an increass from 8250 it
1901 , to $\$ 385$ in 1900 . Atter a lengthy discusion to the best date for the annual sales, a thorizing the executive to arrange dates after May 20 th
was carried. as tollows: $\begin{aligned} & \text { The election of officers for } 1907 \text { resulted } \\ & \text { President; } \mathrm{R} \text {. } \mathrm{K} \text { Rennett } \\ & \text { Res. }\end{aligned}$ 1st Vice-President, Jt, Sharr . Bennett, Miknapore President, Jas. Wilson, Innisfail: Secretary, E. L. I.
Red Richardson. Calgary

At a meeting of the directors of the Eastern on
tario Livestock and Poultry Show, on April 17 th, was decided to limit entries of live stock (excepting
poultry) to Eastern Ontario, and counties east of that. In past years the stock men of Eastern Ot ofrio, for whom this show is espe
cially intended have heal cially intended, have hesitated to compete with those
from Western Ontario ter Weestern Ontario, which is acknowledgged as a bet
tistrict. it is not anticipated that the west ern men will raise any objections, as nearly all a them who have exxibited at ottowa have gone there on special solicitation, with the object of helping the the
show. There is, of course, another side to the matter. for if entries are confined to the Eastern counties there will be color for the inference that the class of stock at the Bastern show will not be as good as at Guelph.
Before any action is taken in the dircol Before any action is taken in the direction indicated,
the proposed plan must be laid before the Minitet. the proposed plan must be laid before the Minister of
griculture, and it is by no means cartain the

FOR THOSE WHO WOULD BURN ASHES Pennsylvanin son of last week was the discovery of method is in cobber's recipe for burning ashes. The dissolving to dampen coal ashes with brine made by The salt, moisture and aches that in pailful of water on the application and heshes produce a lye, which, up-
bringse than is otherwise possible or likely. The combustio a small amount of oxalic acid to to the the addition
result in result in a second and more valuable chemical action
by which by whind makas theat and mis intensifes t the treated ashes, it is advised to mix with To use the proportion of three to one. Fxperimental tests by many householders, among them one of the editors of
this paper, have seemed to substantiote the inventor, in part at least. But along comes of skeptical scientist, who asserts that it is an absolutel established fact that pure ash will not burn, and that no possible treatment can make them produce heat incomplete combustion, so that, after all, the experimentation simply conveys a lesson to be more careful in the use of fuel. One serious objection to to the astul.
burning scheme is that the salte tends speadily to burning scheme is that the salt tends speedily to rust
the iron utensils, and probably wourd thave the effect on the stove grates and pipes. Finally, it appears that the reputed discovery has not even the virtue of novelty. for a substance, consisting of ronsted
sant', Was exploited in Toronto as far back as 1895.

A SIMPLE HOMEMADE LINIMENT Gieo. Lill, an esteemed subscriber., Hiving in Lond
Ont., while calling at our office recontly left the foll ing prescription, which he said years of experience thawproven to be an excellent homemade liniment. It is
ounces ammonin 2ounces ammonia, 2 ou
oil and 6 ounces water.

Everything is waiting for spring, wrote a
respondent last week from King's Cc. bents the record for cold and snow, so far. Apriil
 Narch's genial promises were dispelled by Easter' s, and the chills have seemed to last a good while
Coal ashes
better have them hauled to the Hardonthe soil of which is rather heanvy clay,

QUIESTIONS AND ANSWERS.






Miscellaneous.
Stallion's Number
$\qquad$ stallion Craigen Darrach, imported
John Dryden, Brooklin, ont
SUBSCRIBER. Ans-We do not find this horse in the
Candiani CUrvestalale Studbook

## LOOKING FOR POLAND-CHINAS

 China hogs in ontarioers as of Paland- 1 desire tocommuncate with the Ans.-Breeders of Poland-China swine
for which we are from time to time ree modesty to enires should dot allow their
fact known throvent them making the

RETENTION OF AFTERbIRTH
$\qquad$
$\qquad$
say it should be taken away betore the
mare rises . If so, in what way would
voul nrocould
2. Is there any way to feed a mare to
preevnt her runnininy out her milk?
and fact, it they have gardem purpoes.

 Miscellaneous queries. treat sheep having trouble to to ham o sheep I am mentioning is to ambout ,ier of times. and has had twins a num and 2. Could you kive me an idea of how
ond ake al stund. with drawers. Tor wht it plain
3
oethroud you give recipe for making 4.i. Please tell how to tie up a horse's
tins on it will hold without shaking Farmer's Advocate of for five years, Thd
I consider it one of the best. if not the
bent Ans.-1. This subject was treaten precty
 2. It would be difiticult to dosernue on
paper hoow such a stund off drawers
should be mado



 and fontatiout
 SONG FROM "PIPPA PASSES," BY ROBERT BROWNING.
The year's at the spring Morning's at seven:
The lark's on the wing
The lark's on the wing
The snail's on the thorn
God's in his heaven-
All's right with the world

## A JAPANESE RECEPTION

The two months since I reached his honorable and friendly land the islands seemed to have reached out into the ocean to receive our vessel as she slowly drew into port. Looking over the side of the ship down into the upturned faces of hundreds of people in every variety of water craft, clustered like chicks around the mother hen, I heard my name called, What pleasure it is
to hear one's own name on the borders of a foreign land and amongst strangers
My frien
ducted by them through crowds half-clad, starving navvies and kuruMy first impression was of sound, not sight--the noise of the thousands of wooden geta on the pavements. Trom Yokohama we took train for
Tokyo-my future home. Our train was late, and, on arriving, we found that most of the missionaries had
called in the afternoon-a reception called in the afternoon-a reception
without a lion, a "Hamlet" with without a lion, a "Hamlet" with
out a ghost. But the welcome ex
tended by tended by the Japanese Christians was yet to come, and I was informe
through an interpreter that my "hor through an interpreter that my "hon
orable self" would be welcomed on Saturday, and "please come early" I came early-at half-past one on
the appointed day, attended by an the appointed day, attended by an
escort of four boys to the reception
hall. Before entering it was necessary to remove my shoes and substitute a pair of gorgeous parple Dutch
socks provided ior the occasion. With much howing and smiling. was ushered into a large room, whos
original size had been increased by sliding back the walls which separat
al it from adjacent apartments. This was empty of furniture, save for
small. low card table. Around thi small, tow cardtable. Around the
be seated. This was an improve-
ment on the floor, but the table plus the cushions were not yet so high as one of our chuirs, and I I was woefully tired belore the festivities were over. dropped on her knees hefore lady dropped on her knees before me, floor, and presented a cup of tea (green it was), with no condiments. arrived, those present played a game aiter this fashion: One person called the name of one of the company, and


Two High-class Ladies

Iving no sign (they are so trained) After all had assembled be called. a short service of singing and prayers. Then Muriyama San gave the address of welcome. The appro priateness of my reply was some
what doubtful, through my ignorance as to what the welcomer had said. Japanese etiquette presents some difficulties to foreigners, but the cus-
tom of taking reireshments be eaten has its advantages. The gentlemen waited upon the ladies with tea, and cakes served on a clean
piece of wood wrapped in dainty piece of wood wrapped in dainty
Japanese paper. The cakes were Japanese paper. The cakes were
made of bean paste, served in differ ent styles. One was like two pan-
cakes, having cakes, having brown bean paste be-
tween : one was a ball of paste covtween ; one was a ball of paste cov-
ered in white candy, another with brown. I tried manfully to par
take, but, nevertheless was take, but, nevertheless. was glad to
be able to wrap up the cakes and be able to wrap up the cakes and
carry them home. secure in the thought that no one would be of
fended A short programme of Japanese speeches and Chinese songs was follall of paper, wrapped in a furashiki
(the national chopinc the national shopping-bag), wa passed quickly from hand to hand
around the circle, while one in middle, blindfolded. sang is (:orn) around." The person who held the hall when the singing stopped had to contribute to the programme. A
lady. when caught. sany the King","another acted the her ar a third recited, in Finglish
'Little Drops of Water."


Afternoon Tea in Japan
he latter in his turn must call the oftiered to display his English for the ime limit. If he failed to pronounce stoquently and impressively and the name in time. he must perform for that best-known sentence in lenglish

thal effort for my entertainment, and and guests departed, bowing lavishiy hem. roky

## CANADA'S NATIONAL DESTINY

 In the trend of events and the growing sentiment of the age, we fail o find any justification for Mr. Jus tus Miller's recent prophecy that Canada will eventually cut adrift ada, the British Empire. While Canda, strong in the vigor of her youth, confident in the immense, alhherent wealth, may not submit to the paternal meddlesomeness that erized the attitude of the mothe country, we believe her attachmen to the land and the nace from whence sprung, will grow stronger and more genuine as time goes by: The advantages of union with the 1. close observer whe to any fair notice the crippling expenditures on Frimes and navies of the countries of trade that ho nations of the on foolishly impose on free and nutural commercial intercourse. "In unio there is strength." The nations more coonomically and efficiently maintain the legitimate defence and police surveillance that is requiredby uniting by uniting their efforts. The ten-
dency, we beiieve, will be to moderate tariff restrictions within the Empire, which anyone, not interested in restricting trade, can see will be to
the mutual advantame the mutuat advantage of all parts If these considerations, and others of a like nature. do not influence the in holding stacesmen of the Empir the future, we vary much misjudge the good sense of the peoples making up the Br:ish Empire.

WOOD ALCOHOL
Among the list of casualties chroncled in the daily papers, there not person or persons being poisoned of Wood alcohol." To many people, alcohol is only suggestive of spirituous liquor in some form. We knew personally of a woman who was
about to mix up a hot drink of wood atbout to mix up a hot drink of wood
alcohol for someone who had a cold,
and onlo me onty round out in the nick of Time what she was alout to do. No
doubl, many ,of the deaths from this
cause recordel in ause recorded in the newspapers are
lue to a similar ignorance. Since hen. the risk is one hard to be pret, ospecially among people who seldom cuch-why not change the name many pletely, giving such substances as wood atcohol, denatured alcohol. ctc. names that from the first shall tampered with? The changing would he an insignificant matter, and would he an insignificant matter, and
if even one human life were saved
therely it

APRIL 25,1907
WOMEN'S INSTITUTES Provisional lists for the summer
series of nuetings, which will begin
in most of the sections on May beg have been sent out for the approval
of the Institute officers. The number will be considerably in excess of
last year. The total to date, in-
luding the northern section cluding the northern sections of the
Province. numbers 298 As an indi-
Pruion of what the Institutes in Now Province, numbers
cation of what the Institutes in Ne
Ontario, which were formed last yea are doing, we beg to quote the fol-
lowing extract from a letter received lowing extract from a letter received
from the secretary of the Hanbury
Women's Institute, Temiscambury

## 0

() District rely to your inquiry as to in carrying on our work, I may say
that the subjects chosen are usually those which interest or concern ou daily lives. For instance, spring is
almost here, and our sulject for
March was
ane seds,", deal ding with the places from which to procure them, the best kinds to get for our
locality, and the best methods of planting, etc. Of course, you know
this is quite a newly-settiled country, and our members. a maijority
whom are either from town or the Old Country, found bur subject quit
nteresting and instructive. We in tend to carry the subject through the
season, taking up ". Transplanting season, taking up
next month, with our other suntinject "Care oi Poultry," and so on as the season advances
in furtherance ied, as an Institute. to the (ontario Agricultural College for plants for
experiments in fruit. here have the care of the gardens
the men being busy clearing the land The members seen to prever a cone
verational style of conducting the to a formal one, althoug meetings to a formal one, although
we alw ways have a short address. or paper read on the subject chosen.
The officers of the Women's Institutes would do well to plan at an
carly date for the holding of th Branch Anduan Meetling during the
month of May
have been sunt have been sent to all omiticers ragarard
ing this, and it is hopect that the members, generally will see to it that
nemt the annual neeting enthusiastic
nt office. There is no one meeting
which will tell for more in the work
of the Institute than the wol Ineeting. $A$ Arrangements have been made for the holding of a special conierence
for those who will attend Women:
Instituse ning the last week in May, and continuing until the first or second week
in July
ly having the speakerssome twenty-wwo in number spend a
couple of days at Guelph in talking
over the work in hand and in visiting the difirerent departments of the
Maccionald Institute, thus acquiring
additional material , will, it is thought, much strengthen
the work of the dellogates this vear the work of the delegates this year.
There will be a uniform and definite
purpose. which hat isted among delegates sent out.
Final announcements as to dates of meetings, delegates and subiect.s will
te made about the 20th inst. Sarliament. Buarmers' Institutes.

PROF. LEACOCK'S "CRY FOR IMPERIAL RIGHTS

THE FARMER'S ADVOCATE
Narmad rotassor sovigerously kicks. The Quiet Hour.

WALKING WITH GOD

. Come Thou us Guest within the

## That burns to follow Thee <br> \section*{Within our heart of hearts,}

## Set up Thy throne within Th Go, Lord ; we follow Thee.

There is a wouderful biography con tained in one short verse in the Book of shines still in radiant beauty, though 6,000 years have passed since it was
lived on this earth: "Enoch walked with God:, and he was not ; for God took should not see death, but that is not the fact which makes his record so splendid:
but, as we are told in the Epistle to the but, as we are told in the Epistle to the
Hebrews, he ." plensed God." who is ambitious to achieve greatness should study that short biography and discover the best kind of greatness to aim at. Let us all aim at the highest,
and the highest greatness is not re
served for a few, but is open to old and served for a few, but is open to old and
young, rich and poor, educated and ig-
norant. We can-each one of us-walk norant. We can-each one of us-walk
with God and please God. Then let u do it-NOW.
Though God may seem very far away yet He is really close beside us. We may
know this as a matter of theory and yet fail to realize His Presence, and so miss the gladness and strength of walking
consciously with Him. We mat in the consicusly with Mim. We may, in the
darkness of a hall-belief,", grope for "darkness of a hall-belief," grope for
His heart. like a child blindly seeking it natural resting-place, as Margaret Delanc O distant Christ : the crowded, darkening years
Drift slow between Thy gracious face and My hungry heart leans back to look for But finds the way set thick with doubts
and fears. my groping hem,
mould find some token Thou art walking Instead they clasp but empty darkness And no diviner hands reach out to them! Sometimes my listening soul, with bated Stands still to catch a footfall by my Lest, haply, my carth-btinded eyes but
$\qquad$
$\qquad$
$\qquad$
$\qquad$ or far-off light to guide my wandering Or hope for hands prayer-beating 'gainst the dark. Tries in the night to find its mother's
$\qquad$ Not knowing in the darkness that she Thou, all unseen, dost hear my tired cry, Grope for Thy heart, in love and doubt and grief :
 . But let us think of our next. Two
men were walking along the road be tween Jerusalem and Emmaus, taking
sadly about the tragedy of the first Good sadiy about the tragedy of the first Good disheartened. Suddenly they noticed hat a stranger was walking with them.
Is thev listened to His quiet words they learned that life had a grander object
than inst the attainment of present than inst the attainment of present
glory or happiness. They liegan to dimly understand the great mystery of
the perfecting wrought through suffering. was an very small thine compared with atient. heroic endurance and self-sacri-
within them as the mysterious Stranger that all through the ages Good bad been leading up to His grand God had been Love; preparing men by types, sacrifices and prophecies, so that they might un-
derstand that it was no new thing for glory to be won through suffering and
shame.
That walk to Emmaus wus indeed That walk to Emmaus was indeed a
bright spot in their lives, an hour which would stand out in memory as long as
they lived. They had walked with God they lived. They had walked with God,
though they did not drink in all the sweetness of the experime because their eyes were holden that they should not ${ }^{\text {know }}$ How we
made one of that have liked to have made one of that little company. Think
what it would have been like to have
heard the words of heard the words of Him who had passed through doath as a Conqueror and yet
lingered in the world He loved. Divine lingered in the world He loved. Divine
tenderness must have thrilled in His tones, and His face must have been'beauGiful as He pleaded with them to trust
God in spite of the downfall of their hopes. But what is the use of wishing we had
been , there, when been there, when we know quite well tunity. Have we not? Then the great Christian faith, which can transigure the dullest lives and sweeten the most bitte
trials, cannot be founded on truth. trials, cannot be founded on truth. He
who is the Truth has said that where $t$ wo or three are gathered together in
His name He will always be present. His name He will always be present,
and that He will be with His own until the end of the world.
as those to-day, walk with God as truly noon; and if our eyes are holden so. ther we do not know Him, it is entirely our Think of the joy of walking hand-in hand with our Lord ! Perraps wand-in-
living through a time of perplexity and cannot soe how the tangle is to be straightened out. We can look up in His face and tell Him simply and trustrully
that we put our affairs into His hands, that we put our affairs into His hands,
that we are willing to do what He commands, and to accept whatever Ho gives, knowing that He is able and willing to make all things work together for our
good. We can, as has been said, tie our lives to God at the center; and so re main fixed in the midst of turmoll and
unrest because our anchor is sunk deep in the because our anchor is sunk deep
Heart of God. To walk with God all the time, constrength, is to drink in joy and peace
with every breath and to press on y in spite of rocky road and stormy Weather. Worre worl and anxious, careful and Cause we forget many things, just beIt cannot be that we doubt His power. wonderful bean which we live-from the wonderful, blazing, life-giving sun, down
to the tiniest insect whose life is beyond our powers of understanding-testifles with millions of voites to His power. We
can hardly doubt can hardly doubt His love-the Cross
wituesses to that with a voice which grows louder all through the centuries, as we see more and more that no other ideal of love can compare with that once we doubt is not God's power to what His near presence. We could not mürmur
and complain if we felt that close beside us, for if we walked He was with Him we must know certainly that work could not crush prossure of daily and spring not crush out all freshness us until we grow cross and and chafe piling not-partly at least-because it piling up ahead of us and we see no way
to get it done? There is always more work than we have time or strength to do? Yes, there is more work that we
can see, but in reality God never requires of us more than we can do: To watraight from His hand, one at a duties not to stay awake at night wondering how we can ever get through all there is
to do. There is a wonderful aladies to do. There is a wonderful gladness in
the remembrance that our days are planned out for us, down to the smallest
detail is laid in my hands by my Master. I can touch His hand as I take it and as I I can see-which he has not given to me yet and may not give to me at all-is
still in His hand. He will see to that,

718
ers as $\mathbf{I C}$ pleases. Then there is
pain or the disappointment
 with quiet endurance, but tet su sind the
 chance. Lot us take the cup from His
hant looking up and thanking Him for
it trustrumlly. it trustulully , bocause we know the bitter
piedicine. is given in love to make niodicine is given in love, ow to meke us
strong with the strength of purity and
radiant wit strong with the strength of purity a
radianat with the beauty of holiness.
We aure dishon Worid when we murmur and complain the fusing to wocent in in child complike truse His
will concernis we concerning us. If we, who profess to
be willing to obey Him, have no confidence in His dealings with hav, no confWho are atili doakings with us, then those tor the Truth will
give up hope and will not Kive up hope and will not dare to tean
with all their weight on One who is vevi. denty not trusted by His own disciples Think what a A lot of mischief a disciples.
could do if he doubted could do if he doubted the wisdom of his
general, and plainly showed general, and plainly showed, by dolefeful
voice and gloomy face, that he had no
conifence confidence in hise manae, that he the no
paign. Such hislogangent of the campaign. Such disloyalty would no cam-
make him restless and troubled , out the make him restless and troubled, but tho
cootagion of doubt would soon spread to

## The Ingle Nook.

heating and lighting.
As regards the heating of a house there perhaps, wettle to be sald. There are copular methods, hot air, hot water one most. The first. of these is the


## THE FARMER'S ADVOCATE

his fellows, and he would do more to in- who beg for something without caring in
jure the cause than any outside enemy the least whether it will harm them
could do. could do. cause than any outside enemy the least whether it will harm them.
And we must
One more thought. and And we must also walk with God in To walk with Gocl means to walk also our prayers, putting our requests into close to wur nearest meand to warest friends.
His hands in trustful meekness. To pray
I don't believe he ever intends to wilfully is not only mrong, but foolish and dangerous. We have had enough experience to know that if God had always
given us exactly what we asked for given us exactly what we asked for, we
should have brought heavy trouble down on our own heads by our trouble down
is too kind and loving. God is too kind and loving to give us things
that will hurt us, even plead earnestly for even though we may
poy asks his When a little boy asks his father for a When a little
kind and loving father a really kind and loving father will gun, a really
gift into his hands until he is
and wise hat gift into his hands until he is old enough
and wise enough to handle it safely
Perhaps Perhaps the things to handle it safely.
now are most thankful now for having escaped most thankful
things we were most things we were moste eaper to the very
years ago. The only safe prayer a few years ago. The only safer prayer to place
as a solid foundation beneath every peti
tion tion is: ". Not my weneath every peti-
done!". Too often we Thine be done! !" Too often we reverse
prayer this
and insist that not God's will prayer and insist that not God's will
but our own should be done-though all
the but our own should be done-though all
the time we know that we are very
ignorant and ige time we know that we are very
ignorant and short-sighted, like children

I don't believe he ever intends to sep-
arate friends, though He often tom them from sight. To really walk with God is to be one with IIim and to feel we can, in Him, part of our being. Then ment and touch the heart or hand mo moIne love and who is also one with Him. anch other His chosen ones are near may divide them :" and even and oceans great Divider-has bern robbeat of his errors. Christ has conquered him and saying, he shall, "If a man keeps My our Living Head is very really on this side of the Veil as well as on the other we, too, are on the other side as well as

$$
\begin{aligned}
& \text { - Beside the dead I knelt for prayer, } \\
& \text { And felt a Presence as I prayed, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { And felt a Presence as I I prayad } \\
& \text { o! it was Jesus standing there }
\end{aligned}
$$

o! it was Jesus standing there,
He smiled.
placed to suit the interior, both as re- glass which was so much in vogue some
gards size and disposition-that, too, yenrs without spoiling in the least the appear- cause to be truly thankful. there is
ance of the outaned ance of the outside of the house; on the glass is, as a rule, a thing to be handled
contrary, even improving it. of course with tongs, so often and
 can't patch on windows here, there, and the cheaper grades, is it likely to be bersh and crude, even vulgar, in color

$$
\begin{aligned}
& \text { harsh and crude, even vulgar, in color } \\
& \text { ing. Even when handsome one is cikely } \\
& \text { to grow tired of it, as of all things that }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Eng. Even when handsome one is likely } \\
& \text { to grow tired of it, as of all things that } \\
& \text { tend towards extremes. In exceptional }
\end{aligned}
$$ caure it is thenly used, ohviously be or hot-water Attinge will Either steam

$$
\begin{aligned}
& \text { o grow tired of it, as of all things that } \\
& \text { tend towards extremes. In exceptional } \\
& \text { cases to brighten a dark uninteresting }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cases to hrighten a dark uninterestiong } \\
& \text { corner, or in city houses to shut out } \\
& \text { the vien }
\end{aligned}
$$ o four hundred so wh cost from three rovide for a will

$$
\begin{aligned}
& \text { cases to brighten a dark uninteresting } \\
& \text { corner, or in city houses to shut out } \\
& \text { the view of an uninteresting blank wall, } \\
& \text { it may be permissible, but in the coun- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The vew on uninteresting blank wall, } \\
& \text { it may le permissible, but in the coun- } \\
& \text { cry it would seem a pity to cover up a }
\end{aligned}
$$ way altogether even heat, and do

$$
\begin{aligned}
& \text { try it would seem a pity to cover up a } \\
& \text { vista of trees and field and hillside, } \\
& \text { with of }
\end{aligned}
$$ belches of coal gas and puer-ary air,

$$
\begin{aligned}
& \text { vista of trees and field and hillside, } \\
& \text { with a great blur of crimson and green. } \\
& \text { Bow or bay wind }
\end{aligned}
$$ nest, which are the and up of ients of a hot-air furnace accompani ot-air furnace is much better than hores, likely to keep the labor-saving. much able temperature throughout. In buying a furnace it is well to choose one that is not too small, as a small fre in a heat than a large fire in a small one The larger furnace mhy cost more to be gin with, but the diference will bo ro gained many times over in the saving of fuel, and in general satisfaction.

Every house in which stoves are not
used for heating should te supplied with used for heating should le supplied with
at least oue frentach at least oue freplace- as many more as
can be aformed. It but one, it should be in the room most brequented by the the
family ramily as a living-roome It is, of
course, possible. to to without dres.
 yhould be used. In the thons why the prst place,
room without a room without a islint of of frest in it at at alt
is, in winter, no matter hov wat an 1s, in winter, no mater how warmo it
may be, ar rather cheerless place. There way be, a rather cheerless place. There
is nothing like the clow and murnur o
are to produce ${ }_{a}^{a}$ fire to protuce a general feeling o well-being, and Eood cheer, and sociabil-
ity. the second, firellaces are most

 in the thind a irenlace is a raal savin fire is needed, and, wn as would be thrown
it may be neeressary
hat all nodern fireplares. an.
 may place or or the ention of therwhem


 to be very symum
size. nll placed anywhere, and have a pleasing result.
One must look ahead, me must look ahead, and see with the
magination just how when in place. Nevert they will look due attention to this point one by paying high, narrow windows here, long low have here, a whole cluster of them together if
one chooses, with an effect both inside and out one hundred per cent. more interesting and artistic than the old severehe. Besides, this possibility of diversity forms a reardy loophole to individuality
much to recommend them, but are
scarcely ${ }^{\text {to }}$, he recommended for a cold




Lord. Thou hast conquered death we Restore again to life,' I said,
This one who This one who died an hour ago

He smiled, 'She is not She is not dead But Thou can'st lift the lids sa er prisoned eyes from ours that | He smiled, $\begin{array}{l}\text {. She drom ours away } \\ \text { Hot sleep }\end{array}$ |
| :--- |

$$
\begin{aligned}
& \text { 'Nay, then, tho' haply she doth } \\
& \text { And look upon some fairer }
\end{aligned}
$$ Restore her to our hearts that ach, Ile smiled, ' She is not gone ! - Alas ! too well we know our los Nor hope again our joy to touch,

Until the stream of death we cross
He smiled. There He smiled, 'There is no such !' Yet our beloved seem so far
The while we yearn to feel them He smiled Thee we trust they He smiled, 'And I am here ! Dear Lord, how shall we know that
they Still walk unseen with us and Thee or sleep nor wander far away?
He smiled,
for, say, four windows. If
for, say, four windows. If plants be
placed on the sillks, and a long wind seat run quite silhe, and a longth of the windowthe ellect is very pleasing. And now 1 must close for to-day. Nex
time our talk will be of ${ }^{\text {. }}$ exteriors." dame durden

Margaret Guthrie's Furnishing Dear Dants. Dear Dame Durden,-As spring ap-
proaches and the housekeeper's attentip house towards renewing parts of her house, a little chat on the dining-room referred to some time ago, may interest
sume of the friends. The most essential point in furnishing
is to have harmony in color, and make
the material swit the the material suit the purse. This par-
ticular room tait ticular room is carried out in green and whité, the wall paper a good quality of
dark green, with scrolls of yellow lined dark green, with scrolls of yellow lined
with dark maroon, for which tures in modest tints, mostly black and
white. had to white, had to be chosen, and framed in narfo black frames edged with gilt. of the ceiling, it was deemed advisable procure an art metal ceiling in Louis
XIV. pattern from a Galt firm. The
firm (iver XIV. pattern from a Galt firm. The
firm advertises in "The Farmer's Advo-
cate,", and are to be recommended for cate," and are to be recommended for
their- fine work and careful attention
given to details. blocks cream, and shading the corter green, blending into a darker green to match the paper, a very artistic decora-
tion was obtained. tion was obtained. The woodwork was
finished in cream, and has only to Anished in cream, and has only to be
seen to be admired. The oak poles
were also enamelled in cream, and hold in place white scrim curtains, edged with a green vine. The curtains, edged with
ten inches below the window sill. atuout
temainder of the



 Anom and com terment or hints. onto

 1
 manse kinaty oferedt to embroiderer tovery then
 lower part of the deas. Hf suggestions can be taken from this
the writer will be amply
ropaid and the the the writer will be amply repaid, and the the
cost of anysthing will readily be given. margaret guthile Margarters ons obervation re the crean
curtanas with
arceen vine




 patter. Varnish with stolelae being the sitess, and when ary lay on tho material
to obe stencilied, painting the pattern in

 woving the pateern along, the one block
 done. paint must of course bo betetimes stead of the dye

## Cookies and Gingersnap



 Wiil someone, or or Dame Duass busy. Diden, kinuly

 aine of ten years of age $?$ Any ifforma-
lion will bo thankululy received.
Aliso lion will bo thanktuly reeived
as to
where
$I$
mikhte purchase the


 Here is another one 2 epgs, 3 cupp of
subur, 1 cup of buttermiks, 2 cups of

I should think it you write to T. Eaton they will be beale to to send you a youn


 inely. Bake in a quick over.

$$
\begin{gathered}
\text { From a a } \\
\text { Memben's. } \text { Mnstitute } \\
\text { Member }
\end{gathered}
$$


 gocolate puding, which, by the way.





 hens are the best incubators. In feodin
young young chicks, the first 24 hours, at
least, after hatching least, after hatching, I do not feed them
then I crumble bread and give them, and then them on that feed for about, a week be Core starting them (gradually) with more
solid feed. In feeding them this way seldom lose one, except by accident.
think crumbled bread is better think crumbled bread is better for them York co soaked in water.

2.-A very inexpensive house, rendered uncommon by placing the porch to (By permission of House Beautiful.) to secure harmony both inside and out





## THE GREEN LADY

The New sear Yearg alone in the mire : Year retire : But I the Green lady
Smell lilacs alr
Smell lilacs already
ing higher the tree veins the sap ris
ing higher.'
he wind was as
snake,
the lady's warm fingers bade snowWhen you, I heard you When no vision stirred yo bursting your buds for the Green
Lady's sake,"
5. 3.- Note the arrangement of windows, unique, yet quite compatible with
harmonious exterior. This house was designed by the Crafters mission of House Beautiful.) house was designed by the Crafters. (By per

Che water and swim like a fish, one conmon moteresting is the oter.
 Woored teet oing and very short logs. It It is Skin; and, outeside of he tur next to ito of long, coarse hair. his, thero is a coat As this animal is very fond of water and lives principally on fish, th or river. This home shore of a creek ground, generally quite a hole under water. The entrance to the burrow is the main apartment. which is upward to the main apartment. Which is dug out
as high up in a bank as possible,


We haut


The lady went smiling with rain in her that, in case of a flood in the stream,
face,
the water will not rise up along the And the puddle she trod turned a beau- $\begin{aligned} & \text { entrance way and into the otter's house } \\ & \text { tiful place, }\end{aligned}$ Sometimes the animal ond
 Of Mowny broods warminking in feather- that, in case the water should rise in a leing under the water for a time, but he
cannot live under the water. Frem cannot live under the water. From the
top of his house to the surface of the
well ventilated.
When the as he eats only supper-for that he takes neither breakfast nor din-ner-he slips quietly into the water, and
as soon as he sees a fish, he to it. He has large, seal's and he can see in
well as on land. his long, flexible body and enable him to move through the wail with a motion very much like that of a fish. He can thus swim very fas
few fish are abtle to escape him. During the day, the otter generally
stays quiet in his burrow, but at night. stays quiet in his burrow, but at night
he comes out, and makes, it very lively he comes out, and makes it very lively
for the fish. Sometimps, when fish are scarce, he will do his midnight hunting on land, and will catch a chicken, or any small animal he may meet. If caught when quite young, otters can
be tamed so that they will follow their masters about, and even catch fish for mem. They are as playful as kittens,
them and and make very interesting pets. In otters are largely used in the catching of fish, and a very nice business is done in this way. The fur of the otter is quite in this country. The sea otter, which inhabits the Arctic regions, is much larger than our common otter, and its
fur is much more valuable. They are fur is much more valuable. They are.
killed in large quantities in the regions about Behring Straits and Kamschatka. The otter is such a clever, interesting
little fellow, with sense and shrewdness, that it seammon pity to kill him and use his skin simply World. purposes of adornment. - [Boy's

## TTHE ADVANTAGES OF EDUCAION FOR FARMERS

Dear Cousin Dorothy,-The first and Cornerime I wrote to the Children's as eniovin dated last summer, while if Ohio. But I am back in farm in nce mare, enjoying all the pleasures ar Canadian winter. I think Canad ene yet; but, still, I suppose that only natural, it being my home land wing now, and give you my ideas garding the proposed topic, "The Adthink eduges of Education for Farmers," I country building cannot dơ toc much toward to think to run farm, bin was not needed to-date farmer has a nowadays every upof all the many different understanding connection with farming. If you see a
man who dues not make money, and often along, does not fault usually lies in the fact thy, the does not manage right, and no mancan manage if he doesn't know how; so he he
must have educet occupy too much of your prectous roum, not,
so, wishing you and coss, I will now withdraw, and sucother friends a chance. AUCBU GUN.
Beamsville, Ont

Dear Cousin Dorothy - At many valuable letters in "The Farmer's The Corner. Now, for a talk eh Farmers." Advantage of Education for sideration for what a first take into concation. Some, but few, think that
farmer needs his work, only plowing no education for ing and mowing, but that is ng, reapAfter he has done this, he must take his
grain and other grain and other products to market, and
how would he know whe heating him or not, if not a man was ation? He needs to know for his edu , he wants to know anything about the wite, so that he must know how to person. I say that a to any place man of more than any other busines must say that Iofore I close, I rooks about Canada. With Lorne Middleport.
MLUEBELL

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is well to procure a supply from a different and often it
country, but not ver the
Seeds of weeds that are hard to kill out are in climate
found in field and garden seeds, and precautions must be
The above is a quotation from Farmer's Bulletin, No. 94, of the
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and adapted to the Canadian climate. They are care-
fully selected and free from weeds. This is a plain
statement of facts,
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 WALTER.C.CLARK,

[^0]Current Events.

$\qquad$ Transvaal ; Dr Gen. Bameson,
Colony, and
Natal, Natal. These Mr. F. R. Mor, Mor,
accompanied resent over $16,000,000$ peoials, rep British Enapire. The queple of the and others referring more exclusive to individual colonial needs, were
discussed. the new postal regula Upon news of the recent posta States, quadrupling second-class mail matter, fears were the price of U.S. S. publications would become almost prohibitive, while there would be lew others to fill the gap. Apprehensions on this score tion, been removed. United States magazines, etc.,. may still enter either country at the same rates, but must be sent by express or freight
to agents, by whom they will tributed at ordinary postal rates. In $I_{n}$ this way Canada will benefit by the amount of postage which heretofore
went to the United She partment, and which, owing to the infinitely greater number of American magazines coming to Canada,
made no small disparity of made no small disparity of revenue, the efforts of Canadian authorities to prohibit undesirable literature from entering the country. Almost simulanother reducing the postagent came ish publications sent to Canada from
eight cents to two eight cents to two cents per pound, the charge on packets not exceeding penny, as before. This decision half the British Government will be hailed
with much satisfaction throughwith much satisfaction through-
out the Iominion. British mailed out the Iominion. British maga-
zines are comparatively little read
in Canada. hut the them Canada, but the wish to read
then how
hibitive postaled. hibitive postal rates have been ro-
moved, there will great influx of will probably be a
erature, and by it an added bond to
 PLANTING AND CARE The ing and care of shrubs. paper by R. A. Fmerson, in the Mis-
souri Fruit-(irower hat, sour fruit-Grower, has many things
in it that should recommend them-
selves to Canudin pecial do we endorse the part refer-
ring to planting about our la wing. native shrubbery
We have many
beautiful native shrubs and trees in Canada that should not be over-
looked in laying out home grounds.
Shrubs for not appreciated as they planting are
The hardy shrubs are The hardy shrubs are not only easily things that cane hardy things, the
grown, but they are one of the most the grown, but they are one of the most be airaid of the wild growing. Don't
effective things that can
 some of any large planting, but in sumac in tront of the house? You the elderberry by the
some plate room for no front walk? You think wild eur rant and wild You think wild cur-
booseberry and buffalo berry are too scraggy for the bufalo
You think chokechery hou think chokecherry and coral the wild things, would sprout rest of and
take the whole front vard? Well Take the whole front yard? Well,
mayhe they would. I would not
Want therm myseld-not in the front
yard.


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ment that surely comes with buping cheaply-constructed worm gear separator by examining, before you make the pur
chase of any machine, the square of ciase of any machine, the square or
common-sense gear in the MaGNET Cream Separator, and contrast it with the worm Examine also the
the bowt in the MAGNET as compared with the support at one end only in all Try the
Thers.
Try the MAGMET againat all others clean skimming.
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Examine coosely for easy lurning, ace, and also figure outs the difference in cleaning the mAGNET with its one-
piece skimmer, less than five minutes piece skimmer. less than five minutes as
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others, a saving of tighteen days' work others, a sav
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reatment or merely use medicines to treatment or merely use medicines to
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treatment that has positively treatment that has positively cured
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aches, and make you feel aches, and make you feel fresh and
strong again. Dr. Chase's Kidney-Liver Pills are also excellent for stomach troubles."
Biliousne
Biliousness, liver complaint, constipa
tion, indigestion tion, indigestion, kidney disease and
backache readily yield to the inflienc backache readily yield to the influence
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It, send 50 c . to
Glanhodson Yorkshiriss,

elemhodson company, myrtio stallion, ${ }^{\circ}$ O Lons-dilotanoe pihone ab farm. Lorne Fobter, Me.
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According to Sports of the Timas, at ting-bred stallion, Hambletonian, thet voars showed that during his life of 25
vears as a sire his service fees amrount to 8385,600 , and service fees ammounted
that he had served 2,065 mares. No parallel is found in turf
history. Bargain day in fencing.-The Sthawa Wire Fence Co. FENCING.-Thertise, else-
where in this issue, wire tencing ade yates at specially low wire lencing and
lear out their stos in order to clear out their stock. Catalogues de-
scribing the different styles mayy be se-
cured on application. The factory is to

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 $\mathrm{B}^{\Delta \mathrm{ARERD}}$ Rock eggas from











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 and














$$
\begin{aligned}
& \mathrm{gr} \\
& \mathrm{or}
\end{aligned}
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 Sebolt \& Froom, Regina, Sabk.
 be seen at " Glenenoro,' and here one seed

 breading, regardeses of cost. The purd
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 tormity of type, site and wealth of finue
tustrous wool, and the wiscom of such

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NUESTIONS AND ANSWEM: Miscellaneous.
DESTROYING WOODCHUCKS.
$\qquad$
$\qquad$
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$\qquad$
ducks lay soft-shelled

0

## Very likely the cause of all your trouble is the

 that sucks the blood from hen and chickalike checks growth and production, and
robs your of well
IINSTANT LOUSE KIILLER pilt ria every rowl of these costly
pest and happy contentment
to the whole hen colony. It kills lice to the whole hen colony. It kills lice
on poultry, horses, cattle, ticks on
sheep, bugs on cucumbers, squash and melon vines, cabbbage worms,
and slugs on rose bushes, etc. Also a
reliable disinfectant and deodori-
zer Sold zer. Sold on a written guarantee.
Perfectly harmless. In shaker-top
can-convenient to wse either win ter or summer. Be sure the can
bears the word "NSTANT," else it is not genuine.
1 lb. 35 cts. 3 lbs 85 cts. send your orterer to ons.
Manfactured bl
D. HES \& CLARK. Ashiand, Ohio, U. S.A.

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$\qquad$
$\qquad$
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## AMERICAN FIELD FENCE

All No. 9 Galvanlzed Wime
Made for All Purposes
Note the hinge joint makes
the "American" fit the hills
and hollows, the tension
ard contraction.
and consion

The only medium which conveys weekly to the farmers of Canada, the advertiser's place of buslness, 52 times a year, Is THE FARMER'S ADVOCATE AND HOME MAGAZINE. Subsorlptlon, \$1.50.

QUESTIONS AND ANSWERS.

P. E. I.
$\begin{gathered}\text { Ans.-Apparently } \\ \text { retain possession of it has the right to }\end{gathered}$
as against everyretain possession of it as against every-
body save the owner. It is a case where
possession is the most important point. STAVE SILOS WANTED. Please let us know through your col-
umns makers of silos and which one is the
best. Ans.-We have not heard of any firms
advertising silos in Canada although in the United States there are companies
which will ship although in
Uniter which will ship stave silos to order all
ready to set up, and we are not sure but they erect them as well. Canadian firms might take up this. line, or if any are al-
ready in, they should advertise. If any reader knows of one we will that
to acquaint: us. with its address..

> ROTATION-HOE CROP Have $\AA$ hundred-acre farm in South
Simcoe, Ont.; land partly stifif clay and
partly clay partly clay loam. Any of the different
kinds of grain do well on it kinds of grain do well on it. I plant
some corn and various kinds of roots for foeding; but these occupy only about 4

acres, and I would like to fill out a field | $\begin{array}{l}\text { of } \mathcal{G} \text { to } 12 \text { acres with hoe } \\ \text { could bep, if it } \\ \text { coune to advantage. } \\ \text { Beans have }\end{array}$ |
| :--- | been grown to some extent lately, but

the last year or two it has been rather too wet and backwatd for them.. Pothe rot. Our worst. weedse are sow.
thistle, wild outs and. ragweed. Help thistle, wild oats and ragweed. Hel
is none too plentiful. is none too plentiful:
$1 .$. Prescribe a good rotation. fill out field off corn and roots? Ans. -1 . Unless there is some strong adopt a three-year or four-year rotation,
depending depending somewhat upon the amount of
hay it. was desired to grow. The three year rotation would be wheat and spring grain seeded to clover with. a few. pound
of timothy as a safeguard against clover failure. Take one crop of hay or pas-
ture and plow for corn, ture and plow for corn, roots, potatoes, crop we might sae fit. to. grow. Fill out
the area with peas, or, if the bug still feared, with barley. Sow bug is
the pea
ar barley the pea or barley stubble and oats o
mixed spring grain on the been in hoed crop. If more hay, and
pasture is desired than would be thus
affordcd afforded, make the rotation a four two years in clover and grass. Either of
these two systems will do wonders in
ten years hundreds and thousands of the best Onrotation is adopted, never lose a chance
$\qquad$ 2. Double the corn acreage at least.
Grow potatos, and spray them according ${ }^{\text {to }}$
Calendar " poisoned Rordeaux mixture for bugs,
blight or rot. The late blight fungus is
the most prolific cause of rot, and can
$\qquad$

ruttle's Elixir


The tatantion of ovory fammor and stook
6'TRUE
Combination Wagon-box and Rack







the eureka planter co., modotiook, ont:


A GUICK NEW CURE


We Offar a Limited
Quantlity of Pupe
Pea Meal
$\$ 26$ per ton, in bacs
Smmplese cheorfuly mailed on
Walter Thomson \& Son LONDOM, ONT

## ${ }^{126}$

## THE FARMER'S ADVOCATE

## Tudhope Canimees <br> are light running, comfortable and stylish-and so strong that they will stand

 the roughest driving over bad roads.The Tudhopes have been making carriages for over 56 years. They personally superintend every detail of the business-from the selection of the materials to the inishing touches. Knowing Tudhope Carriages to be as perfect as money and skill can make them, they unhesitatingly guarantee every one.

The best materials-the most careful workmanship-are combined with that painstaking attention to the thousand little things that mean so much in the perfect results.

## Tudhope No. 3

A very serviceable, easy-running top buggy. Green wool cloth or hand-buffed leather seat. Spring back and spring cushion. Seat-ends padded. Lined 4-bow Philadelphia or Crandal top. Selected hickory gear. Double reach, full length steel plates. Long distance steel axles.
First quality wheels, bolted between every First quality wheels, bolted between every
spoke. Rubber tires if desired. spoke. Rubber tires if desired. It is a ,
Fuller details given in our catalogue, fich we send free. Write The
Tulhope Carriage
CO. Limited orilifa, Ont. , 32



Calf Rearing Without Milk If you are short of milk, or have
only separated milk for your calves,
use Bibby's "CREAM EOUWALEIT"

Calf Meal All den stock it.
Calves reared on " Cream Equivaont, even without milk, always loose \&kins and plenty of gocd haire. If interested, write us for a free copy of "How, to Rear Calves for the
Dairy." A postal will do.

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Toronto, Ont
36th Annual Fair



Saskatchewan Wheat land. Easy terms.
$\$ 10.00$ to $\$ 85.00$ per acre. Money making. City reoper

The Minton Mansell Con sASKATOON.
Advertiss in tho Alvocate


## A Superior

 Class of PlowsOur plows are distinctly superior to the usual run of
plows. They are made of the best materials. Made better, more carefully, too. which makes them of uniform hardness. Scour well. Freces "soft" spots-the grievous fault of common moldboards.

PARIS PLOW COMPANY, LTD., PARIS, ONT

QUESTIONS AND ANSWLRS Miscollaneous.

ORIGIN OF MILKING SHORT. How did the milking Shorthorn, gray rom the originate? Were they derived explain frile Ayrshire or not? Kindly erive whe source they were deAns. AN OLD SUBSCRIBER. support the iden thet they wa to to from the Ayrshire ; in derived the last 25 years that light-colorin in shires have become common. They weif
formerly mainly of dark brown The milking Shorthorn, so far awn color. learn, had the same origin the can Ww being due to the difference discernible more especially for early maturity and

ITCHINESS OF PIGS.
A litter of pigs-9-five weeks old, con with plank sleeping platform, two three weeks ago commenced to rub and
scratch themselves a scratch themselves a great deal. I ex-
amined for lice but found none skin is red and covered with a pimply rash in places. I washed them with strong solution of Sheep Dip, but they
seem as itchy as ever They about all they want from the sow ge hey do not eat much beside. They are thriving fairly well. Sow is fed a mixshorts and chop, mostly oats sho ban, gets a good deal of sweet skim milk and some mangels.
Ans.-We would try rubbing them with
mixture of melted it and coal oil, applied with raw linseed would give them liberty to run out on the ground and grass on warm days,
Your feeding of the sow could not well be improved upon.
CEMENT - CONCRETE CATECHBelow will be found a contribution of
information about Chicago authority, who chooses this form which to express the points he wishes What is the compressive strength of This depends on the richness of the Case School of Secently tested at the
Casence, Cleveland, made $8 \times 8 \times 5$ inches, the hollow space bethe block, showed the cubic area of strength of 1,500 to 2,000 lbs. per square inch (blocks being 10 weeks old). Two
blocks, 22 months old, $6 \times 8 \times 9$ inches, showed a strength of over 2,500 lbs. per
squyer square inch. The proportions used were
1:6:6; a $1: 5$ mixture should show about $1,000 \mathrm{lbs}$. strength in one month and
2,000 lbs. in What is the fear. material crete ?
High - grade Pórtland cement sharp sand and broken stone or gravel,
properly mixed, the mixture used being dependent upon the class of being which the concrete is to be used. If
gravel is used it should be thoroughly Cleaned and free from dirt. With broken be as particular as others in regard to
the material being washed, but it is best in all cases with broken stone to see that
there is as little as possible of the fine
dust clinging to the particle I find that my cement sidewalk, con-
Itructed last fall. structed last fall, soon becemee covered
with fine cracks. What was the trouble?
And is there And is there any danger of the walk
breaking up and wearing ately?
The fine cracks The fine cracks, commonly called hair
cracks, are due to over-troweling or too cracks, are due to over-troweling or too
much neat cement on the surface. Over
troweling brings the water to the surtroweling brings the water to the sur-2
face, and with it particles of pure cement. In drying, the neat cement con-
tracts and forms the fine cracks, which are largely a surface matter only.
Can a concrete floor in has cracked be permanently a cellar that
The best way The best way to patch a cracked floor
or walk is to cut the crack crace walk is to cut the crack into a dove-
ailed groove and trowel in a mixture of
ual parts of cement equal parts of cement and a clean, share of
nd. Such patching, when Such patching, when properly


30 PIJIROIELIROITE




HAMILTON \& HAWTHORNE, BImooe, Ont. milles sonth-west or Toronto on the G. T. B.


The La Fayette Stock Farm J. Crouch \& Sons, Props., La Fayette, Ind



 Importations arriving every fow weeks insure
proopeotive buyerr a large melection from
which o mate
 Jnst got in 100 head of Percheron and Belgian
stallions and Percheron and Belgian mares.


Clydesdales, Percherons and Hackneys
I have atill on hand 12 Clydesdale stallions, 4 Clydesdale


 DR. T. H. HASSARD, Millbrook P.O. and Stn

## GRAHAM BROS.

"Caipnbrofie," CLAREMONT, ncporenars or
HACKHEYS and CLYDESOALES
Instablished 80 years, and winners at all large ahown in Canada and United States. Beost of stook alwayi
on haid for sale. New importation of Royal winnemi foet arrived.
W. C. KIDD, LISTOWEL, ONT. Importer of Clydesdales, Shimes, Perohemons, Belglans Hackneys, standard-breds and Thoroughbred

 - WEL P.O. And STMTION.

8MITH \& RICHARDSON, COLUMBUS, ONT.
have now on hand a choioo selootion of Clydoedale Btallione, combinime



Imported Clydesdale Stallions and Flllies Having sold most of my last importation of CLYDESDALES, $I$ am
leaving for Scotland for another importation of stallions and mares, leaving for Scotland for another importation of stallions and mares,
the arrival of which will be announced in this columns of "The Farmer's Advocate." Come and see me on my
Andrew Aitchison,
Guelph, Ontario
When Wiriiner Plaaso Montion Advocito

COSSMF.
C. CURRIE'S YORKSMiIRES AND In the village of Morriston, one and
one-half miles from Schaw Station (C.
P. R) mat one-half miles from Schaw Station (C,
P. R.), and nine miles from Cuelph
the R. R.), and nine miles from Guelph,
the home of Mr. C. Currie, one
Wellington's $\begin{array}{ccccc}\text { Wellington's } & \text { Mr. Cading } & \text { Currie, one of } \\ \text { farmers } \\ \text { and }\end{array}$ swine. Mr. Currie enjoys a splendid
trade in his pure-bred pigs, which is
easily accounted for, as they are the kind
and the trade demands. The Tamworth stock
boar is the massive 800-pounder, Cold-
spring Victor. spring
victor, a hog of grand typue
strong bone, smoth and even, and
capital sire.
castle
cecond and
shore three years in suaccession, all breeds com-
peting, sired by Red Tom, dam Newcastle Queen, winner of Silver medal at
Toronto for three years. As might expected from such rich show-ring breed-
ing, this hog shows a wo brood sows is the extra. Among the Thrifty Pink, champion sow at Guelph one
ast fall, all breeds competing Royal Conqueror. Also in breeding are hree of her daughters, second- and third.
prize winners; among them, a trio of extra good brood sows is the $600-\mathrm{lb}$.
Morriston Molly, a sow not only great scale, but of wonderful smoot on on
and evenness throughout. In ones are several sows ready to breed, very one of them a choice quite individual The Yorkshires are of equally as high a
thandard. The stock boar is Imp S. Charm 2nd, a boar of splendid propor-
tions, on strong bone, and with wellrounded quarters. Among the dozen more brood sows are three imported s they have great size, even any herd, and a good depth of size, even quarter
he others are the get of-S. Several of breed, sale are yows bred and ready ages. Mr. Currie ones, and boars all tinually increasing, and sales numerou either breed can be supplied not akin
Write him to A. DU One of the © SONS' SHORTHORNS horns in the country is that owned 'by Messrs. A. Duncan \& Sons, of Carluke and Hamilton. About midsummer, the Hamilton-Ancaster and Brantford electric
road will pass within varm, which will make it more conpresent, in their splendid stables are about 20 head of really high-class
Shorthorns-the Shorthorns-the low-down, thick-lieshed
early-maturing and good - doing sort representuring the Mar good - doing sorn
Bracelet families, and Doand Duchess and Bracelet families, and others tracing to
Imp. Beauty, by Snowball. The bulk of Che older ones are the get of Imp. Major
Alpine; those two years and under the get of Imp. Greengill Archer, an Orange
Blossom-bred son of Archer's Heir, dam Mmp. Cranberry 4th. This bull is a
Ims is
massive, even, extra-doing rem a heap of grand good stuff for Mr. Dun-
can. Lately, as a herd-header, was purhased a roan yearling Claret-bred son one of the very best sons of that sire of
champions, Imp. Roval Sailor, dam Imp. Crcus. This youngster bids fair to high order. All the heifers are being
bred to him, among which are an exxep-
tionally food. thick pair tionally good, thick pair of two-year-
olds ; one a Roan Duchess, the other Bracelet, a pair hard to turn down in
any show-ring. Another is a three-year-ord roan, a daughter of Imp. Major
Alpine. She, too. is comely to look
upon. A coming show heifer, fit to enter any ring, is a red five-months-old, by
Greengill Archer. and out of a Roan Duchess dam. And another that imessed us, a superior $\left.\begin{array}{l}\text { youngster, is a } \\ \text { an } \\ \text { three-months-old } \\ \text { heifer calf, }\end{array}\right]$ a
$\qquad$ months-old, out of a Roan Duchess cow,
and by the same sire. This call looks ould make something extra good. Any-
ng in the herd is for sale, and thCarluke P. O., Ont. Messrs. Duncan,

HORSE OWNERS! USE CAUSTIC BALSAM.

 The Repository EURNE \& SHEPPARD, Prope.
 Auotion salow of
 Boolel Beles of Thorounthbrod Blook coctiment



Dr.Page's Inglish Spavin Cure.





SHOE BOILS


ABSORBINE
yid ramovo them Anf leavo no

 Imp. Clydustale Fillies !


Imponted Clydesdales


Plosso Mantion this Fpurs

## LAMENESS

Ringbone or Swelling fresh Bruise, Cut or Strain-or an old Spaving your horse splint,

## Kendall's Spavin Cure

Thos, Castles, of Newark, N.J., bought a horse-lamed with a Jack
Spavin- for $\$ 100$. He cured every sign of lameness with Kent Spavin Cure-won five races with the horse-theness with Kendall's former owner for $\$ 1,000.00$.

J. WISBEY
nations Kendall's Spavin Cure-the remedy used by two ions. $\$ 1$ a a bottle- 6 for $\$ 5$. Our -will save you many a dollar if carefully read and acted upon.
Write today for a free copp Dr. B. J. KENDALL co.,
Emoseuna Falls, . VERmont, U.s.A.
KENDALIS
SPAVIN CURE


THOS. IRVING
Winchester, Ont.
Eistablished for over 30 years.
Importer and
exporter of HACKNEY. SHIRE CLYDESDALE and MARES. New importation of winners
just arrived. just arrived. 90 milles west

## HODGKINSON \& TISDALE,

 BEAVERTON, ONT.
Importers and Breeders of Clydesdalle present the ohoioest Epeoimens of have on hand at
 itallions. People wanting , good ones should soe these betore buying. Our farm, "Simooe Lodge," is situated Long-distance 'phone No. NB. Vigitort will be met mait
Beaverton on notifiontion.

## 40 WAVERLY HACKNEYS 40

 Imported stallions and Fillies.

ROBERT BEITH,
Bowmanville $P, O$, and Station.
Clydesdale Long-distanoe 'Phon

I have on hand for sale another -first-class Hackney. Wm. Colquhoun, Mitchell, Ont.


Graham \& Renfrew's CLYDESDALES and HAGKNEYS

 unHAN \% RENFREW, BEDFORD PARK CLYOESDALES AND FRENCH COACHERS, IMP.

 good as the best. Long-diblanca
ROBT. NES8

OAK PARK STOCK FARM COI, LTD

$$
\begin{aligned}
& \text { Breeders and Importers of tackneys. Clydestales. } \\
& \text { ropshire Sheep. Berkshirt P }
\end{aligned}
$$

2 Cholce Hackney Stations for Sale.
Haokney allioe and mares for sale. ${ }^{\text {T }}$
gale. We are booking orders for Ma



## cossip.

 Mr. Alex. Hume, Menie, Ont., writesThrough the advertisand Valuable paper, we have scld our your Ayrshire aged bull, Lessnessock Royal Star (imp.), to F. G. Edwards, Beachville. We have several young calves to offer of dairy breeding at reasonable heifers. We are importing several head from Scotland of diferent ages and both sexes. Which we expect to land the irst
week in May. Our Mr. John Retson has already selected the second- and third-prize winners as dry two-year-olds, first for pair of two-year-olds, first for
best animal bred and owned by exhibitor in 1955: in 1906, first and second in the Derby for three-year-olds in calf or milk,
first and second for three-ycar-olds in Arst and second for three-year-olds in
milk, frist for pair, first and second for best animals reared by extibitor, frrst
and second in the millk test, offlial milk
 terfat. 39 weeks, and since adding 100
gallons for the season's yield. These
will have the yallons for the season's yield. These
will have calves at foot, as they are due
to calve in April. This is the sort selecting of all agess animals of good
type and extra dairy
breeding. He will bring out several head to sell, so so ayyone
in meen on eyoung bull or heifer of such
breeding should write us.
 We have ever oltered now ready to ship.
A few September boars and young sows
just bred.
and are takiny orders tor just bred, and are taking orders for
April or May pigs."

$\qquad$

$\qquad$

> QUESTIONS AND ANSWERS.

Miscellaneous.
APOPLEXY - BROWN LEGHORN EGGS FOR HATCHING. 1. My hens seem to be all right at
kht, and go on their roosts; but I find
$\qquad$
$\qquad$
$\qquad$
$\qquad$

$\qquad$


## DB HESS STOCK Fesd



Fisina PeH
 Fistula and Poll Evill Cure

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IIMPORTEO SHIRE STALLON

 can be Bee日 jn notighborhood. Pedigree and an
information furnishea by addressing BOX 64. Harrietsville, Ont
SHETLAND PONIES! P. MoCullough \& Son. Breeders and im
porters of Shetlind ponios, MMrkdale. Ont. Wo
ghowed 8 ponies at showed 8 ponies at Toronto Markaibe Ont We Whition in 1900
and got 8 prizes. 3 Arrase
and

 FOR SALE:

By the champion Matchless of Londesboro, and
out of champion Marre, Dimmar, by Denmark For particulars adre s. SHE LBUMARE
FARM\&. Shellourne. Vt., U. S. A.
REGISTERED OLYDESDALES for Bale.


APRIL 25, 1907

## INTERESTING! <br> 320 Acres, near Souris.

$2 \frac{1}{2}$ miles from C. P. R. and G. N. R. sidings; 125 acres cultivated, 125
more can be cultivated. balance pasture and wood; fair buildings. ${ }^{2}$ Price for tram and implements, $\$ 7,000$; a oash payment
of $\$ 2,000$; balance arranged.

THE BUSINESS AGENCY,
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## P. .. Box 431

Winnipeg, Man.

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## GROWS IN FAVOR



The best substitute for new milk. It is an absolutely sure preventive and cure for indiges-
tion or scours in Colvee or tion or scours in Celves or Young Pigss, and many of the best stockmen grow better calves with CARNEFAC than with whole

It costs but a trifle, is a convenient tonic, and?"never fails to give satisfaction. Positively no substitute will do its work. If "your dealer has not Carnefac, write us direct at once.

Carnefac Stock Food Company TORONTO, ONTARIO.


Distanced all Cormpetiors
The past season the Caledonia Agricultural
Society offered three prizes for the best acre Society offered three prizes for the best acre of
Sugar Beets for feeding and Mangels, open to
their district All three prizes were ther district All three prives were wor by
farmers with the product of Bruce's farmers with the product of Brucoe's
Giant White Feeding Beet, with Gields of $1,663,1,557$ and 1,343 buthels per with
acre retpectively. BRUCE'S GIANT FEEDING SUGAR BEET Theee grand Feeding Beets introd uced by vs lately
combine the fine rich qnoelities of the sugar beet with the long oeeneng, largee ive and heary ocot pivith
qualities of the mangel. The roota are clean and







JOHN A. BRUCE \& CO., EEtetpobsood. Yamilton, Ontario.


QUESTIONS AND ANSWERS Miscellaneous.

JERUSALEM ARTICHOKES. Where could I get some Jerusalem
artichokes for planting? I have tried $m y$ seed dealer, and he hasn't them. H has an artichoke, but it is entirely diffe
ent from the Jerusalem artichoke. Ans.-Write any of the leading firms of seedsmen who have been advertising in AUCTION SALES.

1. If a sale is advertised as unre-
reserved. can auctioneer refuse to knock
down the article to
reserved, can auctioneer refuse to knock
down the article to highest bidder, if
there have been
there have been several bids?
2. Can owner of goods, at unreser ved
sale, withdraw goods after several bids
sale, withdraw goods after several bids
lave been made?
3. Is it punishable (to either or both
darties) to have men bidding-in articles or stock that have been advertised? and then when purchaser goes for it, and then when purchaser goes for it,
several miles, and find screenings have
been emptied on it been emptied on it, and is told he can
take it as he finds it, or leave it, is it take it as he finds it, or leave it, is it
punishable by law. and how? ${ }_{5}$. Stot by law how 5. State penalty, if any, to puffer (or
one employed to bid-in articles) ? Ontario. $\quad$ SUBSCRIBER. Ans.-1 and 2. (ienerally speaking, no
assuming, of course, that the bidding
3 and 5 . Ordinarily, it is not, but un
der some circumstonces
asion for an action for dight give oc
4. It Would probably amount to a
breach of contract, in respect of which breach of contract, in respect of which
damages might be recovered. LIVER TROUBLE Flock of hens are looking good and
laying well, but every night or two I find one or two unable to get on the
rent morning they sut them up, and in the
moll right. They continue that way about three days, and
then die, some dying on the nest. Are
fed good clean arain, and allowed of exercise. Then, seem to be free of of
lice, but before they die their combs and
gills en Wills turn dark.
Ans.- Your description of the disense hardly full enough to give a decided
answer. The symptoms, however answer. The symptoms, however, point
to liver trouble. Over-fat fowl are par ticularly subject to it. Feeding too
much fatty or starchy foods and condition powders also have tendency to affect the liver. The symp-
toms are not easily notied may be nearly dead before noticede the feathers, bird moping about, dark comb Give good clean food, plenty of exercíse,
no starchy foods, or stimulnts of pure food and some cooked meat When individual cases are noticed, give one of Carter's little liver pills.


Zam-Buk is compounded from pure
herbal extracts, is highly antisootic and appied to a wound or sore kills all bscilli and disease germs which otherwise set up
festering, blood poison, etc. It heals cutes burps, scalds, bruises; and cures eozemes, prairie itch, sait rheum, poisoned wounde
ulcers, eto. All stores and druggists soil at 500. per box, or post free from Zam. Buk Co., Toronto, for prico. 6 boxen
for, $\$ 2.50$. Send lo. stamp for trial box.

## Inglaside Herfords.


Oror 70 Mrad to Soloct From. Bat of booding.

H. D. Smith, Hamilton,_Oint.

The Sumnyside Herefords.


 Broxuood Hereforts

Cows, heifers and calve For sale.
R. J. PENHALL, Nober, Ont. Fourset view ranm hisriniorde


MEREFORDS - Who iro now oneriv it tor

 Aberdeen-Angus -our herd in 1006 mon on London, Dom. Exhibtion, Haill xx, , and Provin

 J. Watt \& Son


 SALEWM.O. Elora Stations, G.T. . . and C.poli. Bhowthomns, Clydesclales and shropshipes. of shorthorrs, we have 100 heed to moleot frome
 Olaromont Pa
Olaromont P. O. And
Teleonhone connection.
$\qquad$

 ARLINGTON SHORTHORMS AND LEICESTERE


For Sale: Scotch Shorthorn H. K. Falrbairme thation Rose Cottacg Sioolk Frome owr.


## Belmar Parc Shorthorns



## Hfier at reduced prices two highly-bred red HORN BUI, CALTEE

 They are the last pair winter. If you want them, oome and see them at once.
Elora Station, G.T.R. \& C.P.R. 'Phone 42 K . $\quad$ SALEM, ONTARIO.

## AT "MAPLE SHADE"

 Our young bulls are the best that our herd has ever produced. We canfurnish Cruickshank bulls of high quality to head the best herds, and some that should produce the best prime steers. We havas a bnd HN DRague. Send for one.

Bhations: Brooklin, G.T.B. Mryile, o.P.B. Long-distanoe teleophone. Ont:
Valley Home Shorthorns and Berkshires

 young pigs of both seases, from
for persoal inspection.
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Clover I ea Stock Farm SCOTCH SHORTHORMS
 a. H. REID. PINE RIVER, owtario, STRUAN SHORTHORNS Pata


Shorthorn Bull prico of Siarn -bay








 the or. T. R. No man or men breading
Shorthorrs in
Ontario
take moro




 Was enterad in the dairy toet at tho
Worrds Fair, Chicauo, in in 1833, and al-


in 7 th place in a group of 70 cows in
the test, showing a milk yield of 54 lbs. the test, showing a milk yield of 54 lbs.
a day, and butter-fat of 2.54 blis. a day.
A daughter of hers has made $16 \frac{1}{2}$ lbs. of butter in seven days in a private test at the farm, and
ma ny more in the herd to-day, and can moble of as in the herd to-day are
careat a showing, and the
Messrs Messrs. Granger intend to pay more attention to the records of their herd this
year. The herd, as it is present, are the get of such sires as Beau Ideal 22554, a straight-bred Bessie, got by Imp. Sittyton Stamp, dam Imp.
Bessie
Lass.
He was a massive bull weighing nearly $3,000 \mathrm{lbs}$. mext to him
came Gon came Golden Eagle 30943, an Isabella,
by Golden Measure, dam Isabella 14th
Foll Following him
a gras Prly-bred
Missie, by a grandly-bred
Bosquessie,
By
After himp.
dam
Amp.
Imistletoe Prince $\begin{gathered}\text { 21st. }\end{gathered}$ After him, and the present stock bull, is Imp. Aberdeen Hero, a Matilda-bred bull,
by Reveller, dam Madge, by Queen's
R Guard. As to his individuality, we
have only to say he was shown al times, and won 21 first prizes, and
look over the dozen or more nice look over the dozen or more nice smooth
heifers by him shows him to be a sire
of more the of more than ordinary worth.
now
now males of sale. The majority of the ferd are built on true dairy
lines, and, if officially tested,
would
certainly show wondertul results. Mhere are about a dozen heifers, from 10
months to three an exceptinally desirable lot, as the Are a thick-lieshed, good-doing lot, and
show they will be grand milkers. The bulls for this year are all sold and
scattered from Quebec to Alberta. Dond neglect these heifers, if in want of dairy
Shortho

> BOOK REVIEW.

Any book reviewed in this department may
be ordered through this oflce. horse literature.
$\qquad$ Friend, the Horse," by Frank Townsend Barton, F. L. S., M. R. C. V. S., and
consider it would make a fairly good addition to a farmer's or stockraiser's 1 li-
brary. It deals with the different breeds of horses and ponies, somerwat breeds
stating their origin, characteristics stating their origin, characteristics, etc.,
treats of anatomy, diseases and treat-
nent, actions of medicines lreats of anatomy, diseases and treat-
ment, actions of medicines, and the dif-
terent modes of adit rent modes of administration; gives
any useful prescriptions, etc. It also
teats of foods and feeding and the gen-

Maple Lodge Stock Tarm 1854-1902.


a. w. smith, maple lodae, ont. Six Red Shorthorn Bulls



d. T. alsson, Denfleld, Ont. GREMNGILK HinRD of high-olass

## SHORTHORNE


 n. miromile . Cons.

T. DOUGLAS \& SONS

TT TrRathRo, prower of short
ral care of the lorse. It is published
y Dean \& Son, Fleet
street, London,


EENWOOD STOCK PARM. SHORTHORNE.


 h unima binos., h



De Atyle.-Does your motor cover much Gunbusta.-One of them did. Why,



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 D. ALLAN BLACK, Kingeton, Ontario

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| :--- |
| whose dam and gire's dam average |
| in official test 86 lbs. milk in 1 day |
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| Nंo stock for sale at present. |
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ow in the Record of Merit
 nd sired by the stock bulle. Record of Merit cows有 High Grove Jerseys $\begin{aligned} & \text {-Choice young bull for } \\ & \text { sale, } 12 \text { montha } \\ & \text { fit for }\end{aligned}$

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y gloomy thoughts, with that sad, $|$| hour friends and |
| :--- | :--- | :--- |
| your | discouraged haggard face, when doing is not impossible to youp of at every opportunity, and will cont here is within your grasp the want to talk with those who in bellieve it has saved me a world neans by which you can regain have tried every other known rem- of suffering. I am now 73 years


brace up, be a man, take an Enter- $y$ you do justice to Dourself to fill est in the good things of life. Look
lour
your stomach with yourself to fill
yougs day after at me! Wasn't I in the same con-
dition as you? Now I am happy, full of strength, and ready to tackle
any obstacle. Yes, I too, tried drugs, ant they failed. Electricity will not
but
fail. Dr McLughlin's Electric Bet fail. Dr. McLaughlin's Electric Belt
cured me, and it will cure you. No
weak weak man will ever regret a fair
trial of this grand Belt-1t has
brought halth brought health and strength $\left.\begin{array}{c}\text { to } \\ \text { thousands in the past year. }\end{array}\right]$
Here is one of the many men cured: Her
Thos. Bridges, Ashdod, Ont., says: Thos. Bridges, Ashdod, Ont., says:
the have been greatly benefitted by He have been greatly benefitted by
the Belt purchased from you some
time ago. My heart is much bette and the rheumatism in my arm has respect. It has done all you claim
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gained fifteen pounds in weight. can work every day, and do no
feel the first symptoms of pain in mily body. It is a pleasure to say that I have at last found a remedy
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and pains." and pains."Laughlin's Electric Belt Dr. McLaughlin's . Electric Belt
Will make you strong. It will send
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some days since, and I bolleve be- be-
yond a doubt that my cure is per-
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put my Belt on when you go to bed; you feel a glowihs warmth passing through your body, warm the electric power gives you new life.
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ing you feel bright, lively and vigrous, and you wonder where your pains and aches have gone. Our
Belt has removed them, and they lill never return. That's a better ouy than making, a drug store of
oour stomach. And who ever saw nybody actually cured by drugs? tell you drugs don't cure -and if Nearly all my matlents tried drugs irst. If you havi't got contdence in my remedy, all I ask- is
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