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heappest and safest way of placing your value at a Try a Policy with th
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## EDITORIAL.

If we get a summer between the hot drouth of 1911 and the cold deluge of 1912, it will be a treat and relief

We wrote last week about the inadvisability of plowing a field on the wet side, and then etting it lie untouched for days. The printers made it "west side," which spoiled the meaning.
One of the finest samples of oats we have ever seen was a few bushels of registered Banner
which came from Prince Edward Island this whing came from Prince Edward Island this sprin
oats.

The remark has been passed in some quarters that the revision of the Bank Act is not a matter which greatly concerns farmers. Ask they think of that.

Why should the farmer with a comfortable home and business of his own, envy the man who may any day have to be secking a job, and who house he occupies because of possible inability to meet the rent?

It is but a short while since fur-farming was a romance of the newspaper feature artist. While prosecuted in an inconspicuous way for some ward Island attained the prominence of an important phase of live-stock bpeeding.

If the same enterprise and capital were ap plied generally to the more prosaic branches of husbandry-sheep breeding for example-that have gone into the ipromotion of the silver-fox industry, would we not be witnessing some aston ishing results in production?

Lightnling rods, by establishing easy exchange of electric current between earth and cloud, pre vent a great many lightning strokes from occur ing, while nearly all the violent discharges tha are led quietly by the rods to damp earth be low. It is only a rare bolt that is too terriffi cally violent to be attracted by the rod and conducted harmlessly earthward in this way.
(irubs and wireworms necessitate the breaking many old pieges ci pasture land. In such urfs the May beetle likes to lay her eggs, and here the grub can develop almost unmolested. New-bround pastures are often found fairly alive with them. They hold the grass back, and, come a drouth in midsummer, they will eat the roots oil clean, so that large patches of thin turf may rolled up like fleeces oi wool.

I Toronto Winter Live Stock and Dairy Exhihition, promoted by the City of Toronto, with
agriculturists, dairymen and live-stock men co operatine by invitation, is scarcely the idea which found so much favor among the stockmen at the annual meetings. An exhibition organized "1 broad lines and aspiring to national or inter

## Seed Men and Seed Supplies.

 chose who have again sown and planted will ere long, be realizing the results of their recent the question: Has it been satisfactory? Has the crop come true to variety and type? Is it pure of the kind purchased? Was it free from weed seeds? Did it germinate and grow vigor sus plants? If a new variety or if it was pro ured from a distance, is it going to be any improvement on home-grown or neighboring stocks? thid you order a certain variety and receive, perhaps, an indifferent sample or something else? These questions cannot all be answered until harvest tells the tale, but if "The Farmer's Adocate" can judge by personal representations and corresponidence received, the replies will be far from satisfactory in some cases ; and a day of reckoning is, assuredly in store for individuals dealers who are more solictous for the
## actions.

One reader procured from a local seed firm a quantity of a much-vaunted new oat which did not germinate at all, and the ground had to be resown with seed of an old, standard sort probe went to look up supplies of seed corn he was shown what had 'every appearance of 'being bagged out of a car lot of feed corn, and tagged as a given variety to be sold at fancy seed prices. He went elsewhere. In several cases, seed of cereals has been found freely mixed with grain of other sorts, and, in other inmination. Progressive farmers do not object to paying a fair price for improved seed of a variety that has demonstrated its merit or gives reasonable promise of doing well with them, but they most seriously object to being humbugged, From correspondence in the possession of "'The Farmer's Advocate", the accuracy of which we have suhstantial reasons to credit, the word "robbery" would very accurately describe practices going on-let us hope to a very circumscribed extent-in the seed business. This has come to nur knowledge partly by reason of qualms of conscience and partly because of a desire, on the part of one who had lately been ctually "through the mill," to put farmers upon their guard, and bring about a better state of affairs in the seed trade
What is one to conclude when in a given store No. 1". the other "American "Crown No. 1" but both from precisely the sell-same lot, and no
 nsked for, he received exactly the same ?
Does a farmer. who sends his good money or express order for a certain kind of clover. wish perhaps, make hundreds of dollars difference in the crop on a ten-acre field next season, because the "house" had neither the decency nor the courage to own up to the facts concerning their
What is to be thought of the directions being given. no matter what variety of oats were asked for to label those shipped so and so, and to substitute one variety of potatoes for another when they happener to look enough alike?
Age may improve some things, but could we expect to revive the mummies of Egypt by mixing them in new packages with modern people or pasting fresh labels over them?

If a house chances to be out of a certain highly nutritive plant food, is it Hkely to put heart into the soil. to stimulate faith in fortilizers or put returns in the purchaser's pocket. to be sent under a misrepresen
cheap and worthoes in lation
Now, the seedsman plays an important part in relation to farming and gardening operations duty on our part to find it necessary to call attention to such things. Every reader of this paper should know what his experience has veen, and he cortatnis would be wise to keep close tab on it this season and govern his future orders accordingly. "The Farmer's Advocate" is disposed to believe that, as a class, the seedsmen trading in Canade are aitining to to a reputable bustness, and are no more likely to deceivel people in the back townships than any other important class of business men. But evidently there are seed houses and seed houses, and between now and the next heavy rup of orders it would be highly desirable, not only from the standpoint of those who plant iseed but of the dealers themselves, to remember and put into practice that time-worn adage, "Honesty is the lest Policy." As a matter of fact the unscrupulous dealer is certain gradually to strangle himself with his own crooked rope. and there ges '"meling good' their claims of honorable dealings with all customers has multiplied three and four fold, while that of has mers, if report be true. has remained stationary or dwindled almost to the vanishing point. It may not be practicable to make men moral by act of parliament, but it is due, to ath thdustry like that of the farmer, beset with so many diffculties, to so adjust conditions that it may be conducted with a reasonable chance of producing at a fair proft, ardequate supplies of food for the people. Clean seed that will grow is important and is a consideration that must never be obscured, but variety and the genuineness of stock purchased for planting or sowing will be demanded with an increasing insistance that the prudent seedsman must be prepared to meet. This is the time of domestic house cleaning, and if the foregoing complaints apply acany particur in pot cepted time to put these ho

Two Functions of the Agricultural Press.
A contributed article in this issue, beleboring a certain Toronto newspaper for publishing an editorial arguing that the people of America would have to endure high beef prices for several years, also chastises the agricultural press for failing to "attack" such articles. Why should wase What is the use or need? Were we to chase up and expose the folly of every bit of editorial vaporing how would we find time or space to prestnt hnstructive and constructive ideas ? So far as the article in question is concrned, we do not reblit here was ery much wrong with Il . To state that con suers win hat
 shoul he in bsession as it has led others.

There are two main lines of effort open to the agricultural press, neither of which should be al

## The Farmer's Advocate

## AND HOME MAGAZINE.

the mbadma agriculiturai journal
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ddress-THE FARMER'S ADVOCATE, or THE WILLTAM WELLD COMPANY (LIMITED),

London, Canada.
lowed to eclipse the other. One is to fight for a square deal-something the farmer is far from
getting to-day. The other is to encourage and getting to-day. The other is to encourage and
assist him in making the most of conditions as assist him in making the most of conditions a
they exist. Here we all are, engaged in the busi ness of farming, depending upon it for a livelihood. It is up to each of us to do the best he honorably can for himself in the existing circumFarmer's Advocate'" is to enable readers to help one another by information, suggestion, exper lence and mutual exchange of ideas. Incidentally, we aim to help on the campaign for economic justice, urging, for example, the reduction of tax ation on necessities such as ditching machines recently, advocating an eoffectual system of bank recently, advocating an effectual system of bank fundamentally important banking business in the interest of the people. But in doing these things interest of the people. But in doing these things
we are particular to avoid that wholesale disparagement of farm profits and farm opportunities to which extremists sometimes resort. For all its handicaps and limited earnings, farming is still an attractive business to a man of the rural sorved and increased with advantage to the whole country, by more co-operation and by greater justice in taxation and trade, but that is no ing it to the everlasting bowwows. Our policy is, make the most of the conditions we have while working for better. Let enterprize be encouraged and wisdom brightened with hope. Let reason and sanity prevail.

> There is no glory in star or blossom
> There is no glory in star or blossom
Till looked upon with a loving eye
There is no fragrance in April breezes
> Till breathed with joy as they wander

Good Things Unappreciated. "It is not many years,"" says the editor the Quebec Journal of Agriculture and Horticul-
ture, "since we saw manure drawn out on the ice during the winter to be carried away in the spring, and this was done by some farmers on
the Island of Montreal.' One kind farmer, more the Island of Montreal. 'One kind farmer, more bors to dump the manure on his land, and thus save them hauling it a mile further to the river. The result was of course, that he had abundant crops, and after a few years the neighbors saw the joke
fIt is extraordinary how inappreciative men can be when without the light of definite knowledge to guide them. To any ordinary farmer in many parts of Quebec, it is well nigh incomprehensible how the value of manure could have been so long overlooked by those referred to in the clipping quoted.

Manure however, is by no means the only good thing whose value has been despised. Time was in Upper Canada when bran was dumped linto rivers to be rid of it. Clover was long in coming to its own in general public estimation as,a crop and as a feed. Alfalifa is not yet appreciated by many at hall its real worth either as a feed or as a soil builder and subsoil opener. If it were, an occasional failure or even a whole chain of failures, would not prevent farmers, whose situation holds out any hope of ultimate success, from keeping on trying, if only in a small way. skim milk is rarely appraised at its true worth to the calf raiser and stockman, while in seasons of low hog prices whey by the thousande or pumper of the tanks and spea into creeks.

Knowledge comes, but Wisdom lingers," says the poet. Sometimes Knowledge seems to linger good while too

## Nature's Diary

## By A. B. Klugh, M.

The lover of nature in this great country of Ours has a great deal to be thankful for. For things-monotony. Our seasons differ radically from one another, by the time we are tired of the white blanket of winter along. comes, the bright, light greens of spring, and these in turn the gree he greens have ceased the novelty comes the lorious blaze of autumn tints.
Just now we are revelling in the fresh lush and fresh-sprung grass
"And that's what we mean when we say that a
And that's what we mean when we say that a
thing
Is as welcome as the flowers that bloom in the spring"
sings Nanki-poo in the "Mikado." And is there any thing much more welcome? They are welcomed not only by the nature student, but by everybody young and old, with an atom of the "joy of living" in his or her make-up. But the welcome is often extended to them in rather a
sad manner. They are plucked, carried a little sad manner. They are plucked, carried a little
distance and then thrown aside. Is there not something indicating a very low type of mental perhaps, natural, for the child is young child it is, way to a higher state But it is . . the on its duty of all parents and guardians" to guide the child to this higher state, and one most impor tant path along which it should be directed is
that of a proper and sympathetic regard for wild
Most attractive objects at this season of the year are the "crosiers" of the dinnamon fern the light green "shepherds crooks" rising in
little groups in moist places. A little later we shall see the outer row of sterile "fronds" (as cinnamon-colored fertile fronds. The fertile fronds are covered with little rounded spore-
cases which contain the spores. In the case ferns and their allies, the spore practically takes the place which is taken by the seed among the
higher plants. But the higher plants. But the spore does, not, like the
seed, develop at once into a plant similar to
that which that which bore it, but in a plant case of the ferns flat body called a "thallus." On this thallus are borne the organs which produce the egg and
arises. Other plants which produce spores are the mosses, and just now several species of mosses are quite conspicuous, one of the most
striking being the giant hair-cap moss, often striking being the giant hair-cap moss, often
termed bear's-bed moss. In openings in the woods its velvet-like carpet, from which project the wiry yellowish stems' bearing at their tips, the hair-covered capsule which contains the
spores, makes an attractive picture. Wha

What a glorious Chorus of bird-song greets the early riser on these late May mornings I robins are carroling joyfully, and as the first dim light spreads over the landscape other musicians join the choir. From the comes the sweet chant of the wood thrush, from the treetops the rich refrain of the rosebreasted Grosbeak, from the swales the songs of
the swamp sparrow, the Nashville warbler, the swamp sparrow, the Nashvile warbler, the Canadian warbler, the water thrush, and the Maryland yellow-throat. With these are mingled the notes of a host of other species, and the drums are rolle
The swallows are now back again coursing over our fields and waters, gathering up their quota of insect pests. We. have in Canada several species of swallows, and to aid in dis-
tinguishing them I give here a "key" 'to the tinguishing them I-

## A.-Green above,

-barn swallo
B.-Tail forked-barn swallow.

AAA.-Brownish above-bank swallow.
The bird which is commonly called the swift, as it differs much in structure from the swallows and belongs to an entirely different family. Its true name is the chimney swift, and it is a very common bird around our buildings.
It makes its nest of twigs stuck together with lits own gluey saliva in our chimneys.
The nest of the barn swallow is a cup-shaped affair of mud built inside a barn, while that of the clifif swallow is a flask-shaped one placed out-
side under the eaves. The nest of the bank side under the eaves. The nest of the bank
swallow is, as the bird's name implies, built in a burrow in a bank.
Insect life is now
Insect life is now awakening, the earliest butterflies are fitting about, and soon insect music of various kinds will the heard in the land

## HORSES.

The stallion which stands for the lowest ser in

An Old Country horseman declares that he would rather breed from a horse with small leet
of desirable shape and texture, than from one with large feet that are flat and shelly, believing that it is much easier to breed large feet from small ones, than it is to get goood feet from bar

No animal is more benefited by warm sun light than a young foal, but it is necessary to
provide shade during the hottest days of sum her, especially with very young foals, which mav be overconse by the intensity of the heat if com pelled to remain out in the scorching sun unpro ected
A livery-stable and cab-horse owner of 25 years ping horses in the spring, on the ground that it is unnecessary and causes the hair to grow in more thickly. In his view, if a horse is proper naturally and present a better appearance.

An American stallioner, writing in 'Wallace' Farmer, estimates that it costs him $\$ 487.50$ pe
year to keep his stallion, divided as follows year to keep his stallion, divided as
oats, $\$ 45.00 ;$ corn, $\$ 5.00 ;$ bran, $\$ 15.00 ;$ a com mercial feed, $\$ 7.50$; hay, $\$ 30.00$; care, 3 month at $\$ 135.00$; care one month, $\$ 50.00$; total
$\$ 287.50$ To this he added $\$ 100$ for insurance and $\$ 100$ To this he added $\$ 100$ for insuranc compare with the cost of your stallion?

A stallion cannot be expected to get the very to him. To be fair to him and also to the mares some effort towards suitable mating must 'chubdy', Felect instance, if the mare is a littl chubby" select a fairly large horse, well set up, tanding Extremes must be avoided. Very up standing lanky sires and also those which are too

## Negligence

Under the sub-heading "Negligence" a writes n an English contemporary gives some sound advice on caring for the colt. No one, he says, The attends horse shows regularly, and examines the classes of young light horses critically, can (ail to have noticed how badly many otherwise good-looking youngsters stand. In young ow horses, (hackuoys a noticed is, very proval and negligence. The signed for it-over-forcing and negligence. body and growth al easy enough to grow reflects that whil it in flesh and, ny ' to grow bone and ite strong not so easy to grow cary the jutra weight enough in prope to be potent cause of faulty standing.
Citing cases which are common in his experhe writes about going to the fields to look over a breeder's stock and upon being shown a foal, a baid, "he is standing incorrectly and his feet roquire attention and dressing," the common, answer is, "Oh, he will come right in time," o
"There is not much the matter with him," o "We will see to him when the busy time is "over. It is this attention to the feet of young horses, foals, yearlings, two-year-olds, and three-
year-olds equally which is one of those 'unseen year-olds equally which is one of those e unseen
jobs , that gets neglected in a busy time. There jobs' that gets neglected in a busy time. There oomething more than a perfunctory look is given to the young light horses, and this perfunctory
look is about what they get on many farms at a look 18 abo
busy time.
" It may happen that the farmer himself does not really in his heart of hearts care very much or his light horses. He seems to think, in is to press the button in the way of good feedcare. When he finds that this is not the case, he gives up in disgus
ing does not pay.
should need particular attention to his feet, because the strain upon his joints is much greater than with the heavier horse. His spells of galloping, and sharp pulling up and buckling are a very heavy strain on his weak and undeveloped joints; and it stands to reason, that, where there is special weakness, and there is generally some pape to the standard of perfect strength, some place that, either by accident or naturally does not quite do its full duty, there will be a corresponding want of correctness of position. In a horse that stands perfectly level, an imaginary line drawn from the ground to cannon bone will have equal portions of the various joints at each side of it; the horse will stand true and more freely. But if the inside,
say, is lower than the outside wall, that imaginsay, is lower than the outside wall, that imagin-
ary line would come out at the outside of the ary line would come out at the outside or less stifly, inducing a leg weariness and somethmes bringing about a bar fall. So it is essentia that an absolutely level surface of the wals be careful and constant examinations to see that this is done.
Take for example of malformation and cure pigeon toes, as it is called, when horses turn their toes in. Here the weight falls on the outer
quarter of the foot. This, of course, wears faster quarter of the foot. This, inside quarter, and so the fetlock, in stead of growing straight as it should do, gets out of the perpendicular. If the inside quarter is rasped down till it is lower than the outsid quarter, this will tend to equalize minse this is not quite such plaing as it course this is not quite such plain secause it is possible that sufficient horn cannot be rasped off without making the foot tender, which, of course, should always be avoid
ed. In this case the best possible must he done and the foot frequently attended to until it will bear light plates or shoes, when of course, the
matter can be righted. Turning the toes out matter can be righted. Turning the toes out
is cured by exactly the opposite treatment Even that very unsightly malformation, upright
pasterns, can at any rate be modified by skifiul pasterns, can at any rate be modified by sow a
treatment. The heels must be kept as low possible, and of care is taken to see that they are Wwered regularly, there will be considerable im nrovement in course of time. But all these when his bones and joints and sinews are amen able to treatment. It is worse than useless to start with him when he has about got his growth. aake a very early beginning and to be regula $n$ attending to the feet.

The Sure Sire
How many of the best type of stallions are ather shy breeders ! A stallion owner was re-
cently heard to remark that most of the horses which were considered fairly sure do not get more than fifty per cent. of the mares bred to them with foal. Of course, the failure of the
mares to conceive cannot all be laid to the matlion. Very often the mare is a shy breeder, and sometimes barren. But is it not a fact that a good many horses get few foals because they are not properly managed, or have been
practically ruined by injudicious treatment in practically ruined by injudicious treatment in fat and doprived of exercise, very often gets few foals. One which has served too many mares in a season while yet young, often proves to be in
after years, almost sterile. Then there is the alter years, almost sterile. Then there is the
common mistake of too many services in one day. True, all owners are anxious, to please customers and to do a "big season,", but it it is
found it to be rather expensive accommodation found 'to be rather expensive accommodation wien thally prove laarren for the year. The sire to prove sure must, under monst circumstances, receive good care. We recently were told of
colt which, last year at two lears of ame colt which, last year at two years of age, serve
fifteen mares and got fourteen with foal, and the mare which missed had not had a foal for several years. This. on the face of 12 , seems to be a light season, but doubtless it was enough for
horse of this ace, and the results were extremaly horse of this age, and the results were extremel.
satisfactory. The colts are coming strong and saisisfactory. the corss are coming strong and in growth, easily weighing now 'in his three year-old form 1,800 pounds, in good breeding
condition. It is planned to breed him to not condition. It is planned to breed him to not
more than sixty mares this year, and these ' to me well distributed throughout a season longer than the usual one. So far he appoears to be fust as sure this year as he was last. It means
much to the mare owner to know that the horse much to the mare owner to know that the mares are treoders. reasonably sure to get colts. The
stallioner as well is greatly
beneatted.
His stallioner as well is greatly beneitted. His
horse gets a deserving good namee and returna horse gets a doserving good name, and returns
outcome will be, in the judgment of Mr. Sege that the market will be oversupplied, and pricoe diays when the about. where thay were the factor that it is now. Really good horses will alwayt be in demand at good figures bute pricoes oven of there are. over supplies of the lower grades.

## The Noted Sire's Share.

The Live Stock Journal says: "It is alvays desirable, if possible, that the farmer should use pedigree to 'his name. for that serves to malse the foals bred all the more salealle. This applies in particular in breeding of hunters and
Shire horses. Dealers and others who buy im Shire horses. Dealers and others who buy un-
made young hunters from'the breeder generall make a point of asking who the sire is, and al Ways foel inclined to ofier a bettior price Tor young horse sired by some well-known stallion
whose stock has already turned out well tu the whunting field, than for a colt got by an obsoure sire. Similarly in the case of shire stock, the fact of a filly being by a fashionably-bred yor prize-winning stallion gives her spoctal valuo \%o
breeding purposes, so that she is worth considid breeding purposes, so that the is worrh consedi-
erably more in the market than one whote poil gree counts for naught.
It is equally true of all breeds. The known sire's colts are invariably more thauable latter
those from unknown stock, even though tho are just as good individuale. Buyers 'look for are justs from the noted ilires. If ralising colte for sale keep this in mind.

## LIVE STOCK.

Milkweeds are said to be poisonous to pheey at any rate they wil.
to it from hunger.
From investigations carried on by the United arried on by the United
States Department of
Agriculture, it ih a

Agriculture, It thas
been learned that IIve
stock do not vevally been learned
stock do not uuvally
eat poinonout plaity
 pelle to do so by
pearcity of other foodo


Westarn Ontario man recently sold two about one year old, 10 $\$ 40$ each. These calve were not fattened, but
had beon ratioed on slifim had been raised on nikim
milk and wer owiled
throughout the wilter. throughout the wihtor.
They were bought stockera. They muat
have paid the raiser Moserve Moordale Toreador Heckney Show
that cour mares bred, fairly well. How will the feeder make out? and the quicker stallioners and mare owner and the quich
realize this fac
breeding come.

## Diagnosing Abortion.

The Farmer and Stock Breeder reporting an
address on contagious abortion, wy Sir John address on contapious abortion, by Sir John
McFadyean, Principal of the Royal Veterinary College, says that one of the importent things he had to tell was that there was now known a method by which one could diagnose the disease
with infallible certainty. The test consisted in aking a small quantity of blood from the suspected animal, allowing this to clot, the clot eventually squeezing out the clear liquid water which was called serum. har caused the disease
of the bacteria which had caused acted on the bacteria in a way which become perfectly obvious in the ther than contagious, eye. If the abortion was other than contagious,
or if the animal was not affected, then was such

One of the most experienced horsemen and dealers of London, (Ont..) Frank E. Sage "The Earmer's Advocate" that the onost difficult horse o secure in Ontario at the present time is a good-moving, sizable driver of quality, and such are likely to continue high in price. At the serving attention at the beginning of the season, acainst the wholesale and indiscriminate breed ing that has been going on, that will resule
overstockiar the contry with a class of horses a nverstocking the country with a class of horses
before the South African war. The inevitable


Tordale Toreado
effect produced on the bacteria. The theoretical His income has been worked out, at six dollars a method by which everyone could protect, himself
from this disease was to isolate his néw cow heifer, or bull for two or three weeks, and have heifer, or bull for two or three weeks, and have
his or her blood tested in the way he had de-
scribed, and"if the test exonerated the animal it scribed, and if the test exonerated the animal it could mix with the other stock with perfect
safety. The method had surprising results safety. The method had surprising results
wherever tried. There was no known medicine which could cure an animal attacked with abortion. Vaccination of animals was in the air, but there were no pu
its real value was.

Our English Correspondence. enGLISH live stock notes.
Wharfedele Show has opened the Fnglish out-
oor season, and once again has sporting Lord foor season, and once again has sporting Lord
Middleton scooped the pool in Shorthorns at this Middleton scooped the pool in Shorthorns at this
Yorkshire show. He scored in bull calves with Birdsall Champion and in yearling bulls with Bacchus. The best bull in the exhibition, however, was Dean \& Sons' Scotland's Standard, a
roan with fine quality and character. Gold medal for female championship went to T. H. Maden's Hawthorn Queen,' a beautiful level roan, with good brisket, deep in her ribs, and 'level ver her top
In Shires at Wharfedale, A. Grandage, the
Cheshire breeder, produced a rattling'two-year Cheshire breeder, produced a rattling' two-year
old stallion, Duke's Double, a massive bay, by Halstead Foyal Duke, and very much like him in character. Sir Arthur Nicholson, who showed his Shires to King George the other day at Leek, won with a three-year-old filly, Chipping Faire, full of quality and a fine free mover.
The fall of lambs in England this season appears to be above the average, and the losses not more than usual. Generally lambs and ewes are healthy. In Scotland a number of death wick. Sheep are backward in Dumbarton, and "thin" in South-west Fife. Regarding the hil ewes, stock on the common grazings are in a
very miserable condition, consequent upon the very miserable cond it is now stated that more than half of the sheep have died. In Ross sheep are in poor condition, in Caithness, North Ayr, and South-east Lanark and Kircudbright the North and East Perth. This will be melancholy reading for Scots domiciled in the new country

At the Dumbarton Show, by the way, Lieut Coldrum Guby in ared Ayrshire cows, and in the milk-cow classes and in pairs he had several other winners. The silver medal for tenan farmers fell to A. G. Russell's six-year-old, bred at Aithenbrae, and got by St. Barchan. In Clydesdales the champion silver sup fell to
James Kinloch for his brood mare Ardoch Jean a daughter of Hiawatha
A Yorkshire gentleman, Charles Thellusson, Broodsworth Hall, Doncaster, has become enamored of the Aberdeen-Angus, and is forming
a new herd. He has been to Scotland to make selections from the Earl of Strathmore's herd and that of W. S. Ferguson, Pictstonhill. More
head 'were bought at the Eshott sale, held in consequence of the death of T. H. Bainbridge 820 dollars each. Chief price was 1075 doHars pald by A. T. Relid for the three-year-old Proud Grace of Eshott, probably the finest of her age
in Britain. She was led into the ring with two in Britain. She was led into the ring with two
very pretty twin heifer calves at foot. The very pretty twin heifer calves at fo
twins realized 165 dollars between them
Pig breeding is on the increase in Scotland,
and Perth is to have a bacon curing factory. A Swedish machine has carried off first prize machine trials.
The famous Aberdeen-Angus herd at Cullen
House is to be dispersed in the autumn. Her is a chance for a Canadian bargain hunter to South for a holiday, and make a bit as well rapid rate. The possibilities of the vast graz-
ing lands within the countries of the Union, and also of Rhodesia have long been recognized. an development of these districts is bound to follo upon settlement and the investment of capital the present moment, being bought. Young bulls and heifers are what the souch Airican buyer is "after" just at the momen
Sir Tatton Sykes, Bt.. who bred two Derby winners, Doncaster (198) recently at the age of eighty-seven vears He seldom ran a horse himself. hut bred Short horns to some extent
The King and Lord Roberts have each "blessed" the soldier team of polo players wh have sailed to U. S. A. to bring back the cuy
the Britisher's lost at polo. The Duke of West minister is paying all the expenses for the ponies
econd The young Prince of Wales has offered a silver (all types to go in) at the Bath and West Show He is taking a deep interest in farming, and is Duchy of Cornwall. Slir Walter Gilbey has celebrated
birthday, and is still hale and hearty. The famous old Hackney stallion " Gentleman John" made his reappearance in the sale ring at House Colne, Hunts, by direction of I. B. Wright Despite his twenty odd years "Gentleman John" made as good a show as a five-year-old. Few corses have had a more meritorious career, the
championships and prizes to fall to his lot in he '90's being almost legion. He was for a long time at the head of N. G. Heaton's stud. At Chatteris Ferry that gentleman paying 5,000
dollars for him. Heaton in 1902 sold Gentle dollars for him. Heaton in 1902 sold Gentle running the won championship at New ' York It was not until he was 19 years of age that he was broken to harness and won in leather. On chased him, and he'l eventually foined $\mathbf{M r}$ Wright's stud. He has now found a new owne in A. J. Newman at 72 dollars.
London. England.


A Cool Dip.
Sheep-wasnng is noty the common practice it once was. Most snepherds clip
their sheep early, which can be done when work

## Sore Feet in Cattle.

When looking over a very fine herd of grass noticed to be more or less lame, due to al ness in the feet. This trouble is not uncommon and a iew points dealing with it by an American eterinarian may aid some leeder to diagnose and
treat his lame cattle The lameness is caused by an abscess-like formation between the hoofs. The starting point is usually a small scratch or abrasion in the skin, which offers a suitable avenue for the en-
trance for the germ causing the trouble. These germs live in the soil, manure, and other filth weather they cause very little damage. When the vards are mudid, or the stables unclean, or the
cattle pasture in wet places, the growth of germs ion of the wet, foul material makes the skin ac ween the claws tender and easy to injure.
eveal swallination and the lame foot will usually ween the claws be cleaned out, the skin abrasion susually plamily evident. Sometimes there is
thick, cheesy covering of grayish pus over the surface of the sore. At other times the nus mat hurrow beneath the skin, and even form pocket hat are filled with this cheesy material. mal out of the mud and wet manure for sed ani days. Thoromeh cleansine of the part withera of the coaltar dips, usine five teaspoonfuls any ocise shreds of shin thould be cut a way and pul pockets well drained. In mild cases, the appliment. The severer forms should rececive, in add-
parts of iodoform and boric acid under a bandag or severai days. Taken in time and vigorousl
and persistently treated, healing should not prolonged beyond a week. If left alone, some cases soon assume the most severe type, whic means delayed healing and more bandaging and dressing.

## The Wool Outlook:

The Canadian Textile Journal, commenting on the Canadian wool outlook, says, that it is ex pected that this year's domestic clip will be much larger than it has been for some years, especially
in the West. The Journal comments
apvorably on the Fiederal Governiment's proposal to encourag sheep raising in the foot-hills of the Rockjes, and also the scheme providing for two wool sorter o be placed at the disposal of associations to as ist in grading the wool and preparing it fo the department to pay 25 per cent of offering ransportation of such graded wool to the Lon don market. Continuing the Journal says "But in taking such action, we think that pa ticular attention should be paid to the home mar
ket, which has been and is able to wse a much larger quantity of the domestic clip than has een provided in anything near cood condition been provided in anything near good condition.
It will be advantageous to the growth of the
wool-growing industry wool-growing industry in this country, to have a good hoom
market for the wool and this can only be provided by paying the requirements of th ne requirements of the
mills here. If a part of the clip is to be well graded and well prepared for the
market, it should mafered, to the Canadian mills where it will command as good
prices as anywhere prices as anywhere on 1 y le popular o foreign markets when it has established a
much better reputation much better reputation home market. The principall meason tor lits success on the English
market this year market this year, was
the shortage of the wool supply., as hitherto English ' buyers have shown a dis Canadian wool on ac count of the disgrace ful manner in which These buyers are well inese buyers are well conditions here, atnd mills receive the clip, so that we thin which our eputation is established at home, a good market will easily be found in the foreign exchange for There seems to be som prospect of the removal of duty on w. With ing the United States and also a chance of mar keting wool in England, growers are looking fo etter returns from their wool. Providing they can get just as much for it in the home market as to hut the opening of these two new channels will surely bettider conditions. Home buyers realize there is onething in angling for the trade. But ligent, and that in which growers have been neg mant, and that is, the promiscuous and shiftless ip for sale.

## A Good Calf Meal.

The Irish Department of Agriculture has cal feeding, to ascertaine expetmental work in cal conomical plan to rear calves up until time of foaning on whole milk, or on whole milk from on srparated mill to stitute has heen added which some butter-fat sub ontaining sucn substitute viz., (a) A mixtur consisting of five parts separated milk and on wart of whole milk, approximating in compositio ood-liver handed milk. (b) Separated milk an ture of meals. In addition to each of these ra fions a little nutted linseed cake was fed. The restilts clearlv deunonstrated that, although calve fed for a considerable periorl on whole milk wil
the gain in weight made by animals reared on to be proititable. It was also found to be Thore economulcal to use separated

with a outter-fat substitute after calves are along with a ouix weeks oid. The best financial | results were obtained from the calves fed on |
| :--- | separt ground flaxseed, two plarts oat meal and two parts of maize meri. The experimental evi-

dence is based on work done at fifteen different dence irs in eleven counties. The calves numbered

The calves averaged seven and one-half old at the commence
which lasted 117 days.

Fattening Cattle on Bundle-Corn.
thile we, in this country, believe in the silo as being the best method of saving corn fodder
for winter feed, there are other methods of hand ling the corn crop to advantage, according' to
a Minnesota bulletin by Ray P. Speer. Th farmer, whose scheme is outlined in the bulletin farmer achieved success by growing a cheap feed by working out an economical system of buying cittle, and by devising ani efficient scheme of
fatrm management. These are the three most farm management: These are the three most
important considerations when it comes to showing a balance on the right side of the ledger in
catte feeding. Cheap feeders, cheap feed and a permanent system of cheap feeding form the basis of the work, cheap, roughage being recognized as
the one great essential to satisfactory profit. F. W. Hubbard, the man whose system we here outline, purchased 120 acres of weedy soil and a carload of each of two classes of cattle, stock-
ers and feeders, is handled each winter. ers and feeders, is handled each winter. The
stockers are immature cattle which it would be sextremely difficult to finish in one winter, and the feeders are more mature cattle suitable for finishing in one winter
The stockers are purchased in the fall,' and
kept over winter to follow the feeders which are kept over winter to rollow the feeders which are
being finished for market in the spring. They are pastured during the next sumener, and turned
into the feed lot as feeders.
Each carload of stockers is kept about eighteen months-durling one winter and one
one winter as feeders.
The carload of stockers is purchased about
November 1st, and placed on pasture. About November 1st, and places on pasture. About
December 1st, these cattle are placed in the feed lot to run after the feeders which have, been kept
on the farm one year. The stockers remain in on the farm one year. The stockers, remain in
the feed lot until the middle of May, when, after the feeders have been sold, they are turned out to pasture. They remain on pasture until about
December ist, when they are driven into the feed lot as
for market.
The feed-lot equipment is not an elaborate one. The cattle are fed in a lot firty-portected
ninety feet lin size.
This lot is well proted from the cold winds of winter by a right-angled
shed on the north and west. A barn oon the north-eastern corner of the lot also affords some cedection. posts, and $2 \times 6$ hemlock boards.
uuilding and equipmor the feeders is 74 by 16 feet and the smaller one for the stockers 54 by 16 Theet. $\begin{aligned} & \text { The combination closed-and-open and } \\ & \text { sheds, well-ventilated, open on the lee side, and }\end{aligned}$ fitted with sliding doors to be closed against unavorable winds. The steers are kept ech rack to
and two feed racks are provided, eare
They are watered accommodate twelve stee
Irom a galvanized tank.
The change from pasture to this feed is mad The change from pasture to are finally placed in the feed lot. Fallen ears from the corn field ar ied to 'the cattle in small amounts October. When this is used up, a bundle of corn
is fed to each steer daily.
By the of December the cattle have become accustomed lot The porest-eared corn is fed first to preven
oner-feeding, and it often requires two months 0 get the steers on full feed.
Heckers which have been in the feed lot all night are turned back into their shed. The rand and filled with bundle-corn, one layer deep and packed fairly $'$ tight. The feeders are
turned into the lot an hour later, more bundlecorn is thrown into the racks to complete the
morning feed. As many bundles are given as
The aim the steers seem to be able to handle. The aim
is not to overfeed, and yet to give all that will 1... consumed. $\begin{aligned} & \text { At } 11.30 \text { a. } m \text {.. the feeders are turned into the }\end{aligned}$ shed and the stockers are allowed to pick over
the stalks in the feed racks. At 4. 15 p. m., the At ockers are driven back, the racks are cleaned
ind filled, and the feeders are turned out again.

method of feeding is continued until about the
middle of May, when the feeders are shipped to market.
The stockers are given access to the feed lot
from $11.30 \mathrm{a} . \mathrm{m}$. to $4.30 \mathrm{p} . \mathrm{m}$., and from 8.30 p. m. to 8.00 a. m. each day. So keen are their appetites ' that there is little bundle-corn left
when they have finished eating. is given them except two bushels of shelled corn
at noon, about five pounds of corn to each
In a general way, the plan is to give both
In a general way, the plan is to give both day. The same time of feeding is carefully
observed each day, as the cattle will make sub stantial gains only when fed regularly. Salt is kept before them constantly in a tub in one
corner of a rack. The steers are never disturb corner of a rack. The steers are never disturb-
ed, and every opportunity is given them to rest and make gains.
Brood sows are placed in the feed lot to fol low the cattle. These sows farrow in the spring
and often again in the fall. Fifty sows were fed in this manner last year, and got nothing but the waste corn left by the steers, and a slo, given them twice a day, composed of one pound
of shorts and one-half pound of oil-meal per sow of shorts and one halif pound of oil-meal per sow
daily, No loss of pigs has so far resulted, the daily, No loss of pigs has so fat
sows' litters averaging 8.85 pigs.
The sows are sheltered in the sheds. In each shed at the northwestern corner, a pen sixteen
by sixteen feet in size has been partitioned for them. The steers are not admitted to the hog pens. A systematic methor of feeding
followed in caring for both groups of hogs. In the morning the sows which follow the feeders are turned out with the steers until they have received their slop, when they are driven back
into the shed again until the bundle-corn, has been picked over. They are driven back to pre vent them from pulling corn out of the rack. The sows are allowed to run in the yard with the feeders about an hour after the feeding is
done. They are driven back into the shed with the feeders at $11.30 \mathrm{a} . \mathrm{m}$. The same method is repeated at 4.30 p . in. The sows 'which follow the stockers are turned out with the stockers at $11.30 \mathrm{a} . \mathrm{m}$. and at $8.30 \mathrm{p} . \mathrm{m}$. , and fed the same
amount of slop given to the other sows. amount of slop given to the other sows
The pigs from the sows are kept until isix
weeks of age, and are sold at about $\$ 3.00$ each A few milch cows are bought each year. These cows give a good supply of millk when
bought, or are about to freshen. They are fed bought, or are about to freshen. They are fed
bundle-corn only during the winter, and are milked regularly. In the spring they are sold as butcher cows at prices always in excess
of those paid for them. Milk and butter for the of those paid for them. Milk and butter for the home is, in this way, supplied, and so made to sell.
is also mation, and so it is necessary
Bundle cora is the rater that an excellent quality of this material is produced. The old corn fields are harrowed early in the spring to level off all stubs, and Plow ing is delayed as late as possible, so as to aliow weeds to germinate. The best possible seed-bed is produced, and the corn is planted from May 28th to, June 5th-hot ean an to four or five inches in height, always harrowing across the rows. The corn is sown thickly to produce fine stalks, and the smaller, heavy-earing varieties crop is cut as soon as the husks have turned white, -although most of the leaves are still green. The ideal crop of bundte-corn corsists of an immense amo many ears. The bundles are made large and are placed in extremely large mhocks, the large shock being the secret of good bundle-corn. Twelve corn rows constitute one shock row, and about fifty bund after the corn binder. The bundles are set as nearly perpen dicular as possible, and they remain in the shock until required for feed. On cattle marketed in
1911 a return of 34.3 per cent. on the invest1911 a return of 34.3 per cent. years he has had. This, to say nothing of the profit made on the pork, was not a had return The actual cost of keeping each so cents per day out to be just a corn they got, being all charged against the steers, could be charged againa the sows.
The success is due to the raising of a cheap palatable and easily-grown meat and milk, and also to the fact that the cattle are secured at the smallest possible, cost, Find Fsiling, husking or shredding is avoided in the feeding of bundle corn, and corn can be grown and for about one half the cost of silage. produced steews by Mr. Hubbard, it has been and, as grown found very palatable and nutritious. Mr. Hub found very palatable and nutrin stockers at a
price, and feeding them over the winter as in-
dicated, fattening them the second winter. There isn't the demand for the thin stockers, and they can generally be bought at a low figure. They follow the fattening steers, utilizing what would otherwise be waste, and, purchased one year
ahead of the feeding off, they are accustomed to the feed and make, more economical gains. Animals less than 20 months old are not purchased, three years old or older. About 38 acces of corn is produced yearly, not much hired labor beling needed at any season as the remainder of the farm is roughr and used for at a profit, and all the manure is saved and returned to the corn ground thus keeping up the fertility of the soil, corn having been grown successfully on the same 38 acres for twelve con-
secutive years. Good farm management is secutive 'years. Good farm management is
necessary to get the best returns from live stock, necessary to get the best returns from ive stock,
and each feeder must adapt himsif to the and each feeder must adapt himselian

## "The Dearth of Cattle.

Editor "The Farmer's Advocate.": titled an article in its editorial column. "The Dearth of Cattle.
The editorial pages of many of our papers fur bish a great portion of our comic reading. Ye it is ploinly intended to be taken seriouel Moreover, it exhibits such a serene disrogard for facts, logic and sane reasoning, that it deserve our attention
This editorial, after commenting on the falling of in the export trade in cattle from the Unite conclusion, and that is, that the people on this continent will have to endure high beef prices for several years.'
Prices that are not remunerative enough to
keep the producer in the business cannot be keep the producer in the Dusiness cannot be rea-
sonally termied " hard to endure." In a land continually critized for its leaning towards materialism it is safe to assume that production will bc alimaty the returns warrunt, and only then. South Oxford, gave an address at Ingersoll, some years ngo, before the Western Ontario Dairymen's Assoclation, in Which ne said :
strated at consider that it has been demonstrated at the Untario Agricultural Collgse, that
it takes 8 to 9 cents to produce a pound of beet live weight, while I have been selling my beef around 5 or 6 cents a pound, I feel that I have been something of a philanthropist.
ions into the discussion of agricultural subjects. sions int his blissful ignorance of rural economics, apparently forgets that the producers of the stall-
fer beef in this country in the past have been feri beef in this country in the past have been
philanthropists. That they have been underpaid might be proven in many ways. The best and only proof necessary, however, is the fact that beef animals have decreased in number in this vince at a very rapid rate as statistics prove.
The writer of the article referred to, goes on The writer of the article referred to, goes on
say, "There must be a revolution of cattle to say, "here must be a roving before prices begin to materially.' Wihen prices do not at present warrant sustained production, it is surely an intelligent view that expects a material fall in prices
This editorial goes on to sa
has a splendid opportunity under present circumstances to build up a far-reaching cattle in-
dustry." dustry." I /agree with this statement. The
first thing necessary, however, is the exposing of the fallacious doctrine that present prices are pax the fallacious doctrine that present prices are px-
orbitant, which is being done to death at present over this country.
Why is it that in the
Why is it that in the numerous articles on the high cost of living, the producers of farm pro
ducts receive the major portion of the abuse? ducts receive the major portionorities on journal
According to the best author ism, papers publish what the public demand in so far as they can follow this out, without offending hose parties There is probably a popular demand for ar
ars ticles blaming somebody for the present high cost of living. Abuse always follows the line of
least resistance. Why not abuse the producer ? He does not advertise in the paper to any great He does not advertise defended by any influential organization, therefore he is not liable to strike hack. He is not represented in Parliament to anything like is exant indifferently defended by the Agricultural Press. At least the Agricultur al Press lay themselves liable to this charge, by neglecting the opportunity of attacking articles similar to the on
often come their way.
The editorial page of our papers either reflect
public opinion, or seeks to establish and educate it ment. This, however, is clear, that the producer is receiving more than his share of the blame for the present high cost of living. of all men at tacked the producers of beef cattle are possibly
the least deserving of blame. If we, as fariners the least deserving of blame. If we, as farmers, that present prices of farm proaucts are "exorbitant" and that present prices of buef are "hard to ondure," without justifylng our position in the matter, we will in future richly deserve caitle findustry" referred to, may not reach as far as some of us might wish.
of living the point is often nons of the high cost of living the point is often overlooked, that the high cost of living is not owing to the exorbit ent price of the nexessitios of life entirely. It is which we cannot do without, even if what are commonly called the necessities of life have to be dispensed with.

Much energy has been spent to introduce tion. We require some system of marketing that will procure for the producer a fairer share of the profits derived from his labor
The eloquent articles, blaming the producer
or the high cost of living, have become monotenous. By way of variety could we not have little investigation that would reveal the true parasites of the country, who can fold their arms and earn their bread by the sweat of someone else's brow with a
all understanding ?
Those who deplore the present high cost of living might be able to accomplish more if their efforts were turned in this direction, and their efforts would then stand a far greater cnance of
being on the side of honesty, justice, equity and being
truth.
Lambton Co., Ont.
E. LATTTMER

## THE FARM.

## Ear Test Reveals Surprises.

Many corn growers are of the opinion that they
can tell hy the appearance of an ear, whether it will grow or not. In the majority of cases they can, but an ear test reveale some surprises. By
an eart test, of course, we mean a t test by bhich
lour, six or some other definite number an ear test, of course, we mean a test by which
lour, six or some other definite number of kernels are taken from each ear and placed in a separate square of a box to germinate, the ears being numbered with mucilage stickers and the squares fil ears will sprout only five out of six kernels or even fewer, while some that an amateur would be inclined to reject will be represented by six germinating kernels. As a general thing, corr that
has been judicionsly dried by artificial heat with air circulating through it, will make a much more even and satisfactory showing make corn which has heen merelly hung up without special ventilation or artificial heat. This is especially true of well-bred corn, with close rows of deep kernels
and small cobs.
Where growing corn in hills ${ }^{\text {a }}$ a tull stand of vigorous plants is very important. Moral, get the lest seed corn you can, ind if posgible make an oar test of it. This suggestion was
offered early but is repeated offered early, but is repeated by way of emphasis
to impress the point for future heed.

Crushed Stone for Concrete Silo. Good clean gravel not being handy, how many ${ }_{a}$ corrilo 14 is 35 leet by 5 feet, to build ground? Also the amount of cement required? The thickness of the silo wall is to be as T. You Ans. - A silo $14 \times 35$. with walls 10 inches thick at bottom tapering to six inches at the
top and with a cement floor, would reuuire about 12 cords of gravel and 42 barrels of cement. to the amount of stone to have crushed to substitute for gravel, we cannot instruct you
better than by appending the comment of better than by appening the comment of
W. A. McLean, Provincial Engineer of Hightays,
as expressed in a leter to ."The Farmer, as expressed in a letter to cate" bearing upon this point.
"In general, stone taken from a quarry will
expand one-hall upon being crushed ; and when taken from a pile of rulbble stone, will expand
about one-third. This depends very largely about one-third. This depends very largely,
however. upon the way in which the stone has however. upon the way in which the stone has
been pilid. As with a wood pite, a great deal
of skill can be developed in producing vacuum. The stone should be crushed to go through a 2-inch screen, and should have
low one-eighth inch, removed.
"Sand should be essential in making concrete
h crushed stone. Stone. sand and cement with crushed stone. Stone. sand and cement
should ordinarily be mixed in the proportions of

## ix parts of sto

## The proportion

 ever. on the quality dill depend somewhat, howsharp building quand should materials. At clean, is fine, proportions ahould be made one part ofcement. two parts of sand and four parts of stone. "Ti concrete is is dosired. there should bibl mixn-porous the cement before using about 10 per cent. of hydrated lime. This lime is manufactured at the
Central Prison Farm. Quelph, Ont., and at a few other plants in Ontario.

## THE DAIRY

## Clean Milk Production.

Viditor "The Farmer's Advocate.":
In the matter or of producing clean milk, it is
ot knowledge that we need, so much as it it the not knowledge that we need, so much as it is the desire to do decently the things we already know.
Everybody interested in cows is agreed that stables should be cleaned, windows swept down manure taken from the gutters at least once each day, cows groomed free from manure, food always
kept wholesome, and stale, unconsumed kept wholesome, and stale, unconsumed portions ment consists in carrying out all these details, which are advisable in any well-conducted barn, without great expense. During the regular winbut routine, these things are done reasonably well and every nerve is strained in planting, cultiva ting and harvesting the crops, the alleys go littercovered, windows become opaque, manure ac cumulates in the gutters and a general air of Everywhere in t
and practicable are far apart. It is easy to say that a thorougg grooming is good for the cows that it is an important thing to do if the best milk is to be made. But most of us will be do-
ing pretty well if we can find time to brush the ing pretty well if we can find time to brush the
loose hairs from the udder and flanks and to pay a little special attention to any flecks of manure that may accumulate. A fraction of a minute
per day per cow, spent in this work will per day per cow, spent in this work will keep a
good many hairs out of the milk pail, and par haps, from the layman's point of view, the number of cow hairs pef pail is a better standard of purity, than the number of bacteria per c.c. Take
the well-meaning and well-trained health expert, whose standards of cleanliness are laboratory come acquainted with dairy conditions through an occasional visit to some famous stable, that
hes been specially swept and has been specially swept and garnished in honor
of his coming. I wonder if he realizes the length of the milk route, from the udder to the brealifast table, and how many opportunities
there are for accidental contanmination by the there
way.
For

Fortunately, so long as cows are spending most of their time in pasture, grooming geneneral-
ly takes care of itself.
TThe pasture bed is dinarily clean, for the warm rains, sunshine and hreezes are ellicient cleaning agents. There is objectionable. When pastures are so situated that the cows have access to muddy pools or swampy ponds, they will often stand up to their
knees in and plastering, themselves with tails, fighting flies thing takes place to less extent in met The same many barnyards. Of course this mud quickly dries and readily drops off into the milk pail, making a very finely divided, heavy dirt that sinks to the loottom of the can or and quickly only is this dirt but, moreaver, dirt that seems life. carry a very objectionable type of bacterial Perhaps there is no one single factor that will
do as much towards hich-grade milk as the small toped pail Most of the dirt that gets intoll
milk falls into it and hence the area of the to milk falls into it and hence the area of the top
of the pail is $a$ fairly direct measure of its cleanliness. The main objection to their use is that and to handle than the open-topped pails, but they are one of the things that have come to
stay. stay. Let it be said emphatically that those
contraptions where men milk into contraptions where men milk into a strainer are
a cood deal worse than useless. The part of the dirt that is really bad washes through. cleanliness in the stahlean milk, means not only
neaans clean utensile means clean utensils as well, and no utensil is Ceecn from a bacteriolocical standard until it has
been actually boiledl or well steamed with live
steam steam. There is no more perolificamed with live
ble than a straine of trouble than a strainer cloth rinsed in warm water
and hung over the fence to dry, but the same
cloter cloth hoiled for a few minutes after washing is
clean from the standlpoint of the bacteriolocist
There fro
ing milk utensils. One is that alkalies and car to soap or soap powders salsoda, are preferable Salsoda dissolves coagulated casein and this it a special value for washing up old dirty cans. till, pails and cans that are well cared for from lay to day will not make any great demand All pails should
vashing, and cans sho inverted while hot, afte nverted on a slatted rack. They certainly sides o not be closed tight. There are few worse must han a fairly clean can that hew worse smells tight until it has become musty. There shoul Separafirly clean cans. They should be clean while still very, if laid on the shelf or hung up while still very hot, will usually dry very satis actorily. Of course, if steam is not available, thing a difficult matter to do many of these thing for safety" when it comes actually terilizing milk cans, and yet thousands of faith such primitive apparatus. a pretty fair job with such primitive apparatu
in making milk are "cleanliness and cold." and it might be added that the greatest of these is cold. By this I mean that there is no milk so at high temperature, that it will very rapidly spoil though not so rapidly as if it were dirty in the beginning. Ou the other hand, quite inferior mill will keep in presentable condition for a long time words, spoiling is a matter degrees. In other and bacterial growth is a matter of temperature Fairly good milk below 55 degrees will keep Tairly , well, and above 65 degrees it changes fast rawn we approach the temperature at which it i celerated speed. There is at geometrically ac varying rule: reduce the temperature of the mill mmediately after milking as rapidly and as low as possible and do not allow it to warm up Johnson Co., Ill.
W. H. UNDERWOOD.

Saving Condemned Milk for Feeding condemn milk boca of thals in many citios to dealers to comply with certein dands. Usually this milk is dierature stan emptying it into the gutter thougsed of 'by tempts have been marde to dencture the at by adding certain substances which oul mili it unfit for use in its fluid state. would render tunate that this milk, which is valusble is unforing farm animals, should be needlessly wasted This loss can be prevented if 1 the milk is returned to farms. where it can be utilized for feeding live stock. Condemned milk could also feeding live the city for making casein and for other 'purThe Dairy Division of the Bureau of Animal Industry, United States Departmeent of Animal order to devise some practical method of denaturing milk so that practical method of demay be prevented, and yet leave it in a condition suitable for feeding farm animals. The work thus far has proved that the use of a rennet so-
lution is effective for this purpose, at the usual temperature at which milk is conderaned. In these experiments a 3 per cent water solution made from powdered rennet of a strength of
1 to 30,000 was used, and 40 cubic centimeters milk this solution were added to 5 -gallon cans of made in a room where the The tests were $80^{\circ} \mathrm{F}$., es that is about the temperature was air in summer when most of the mille is conadded to an one test the rennet solution was added
of $50^{\circ}$ a ${ }^{\circ}$. In $^{2}$-gallon can of milk at a temperature
and 15 minutes the milk was slightly thickened, its temperature then being $57^{\circ}$. Thirty minutes later the temperature equal amont of milk at an initial formed. An $65^{\circ}$ was treated at the same time. In 1 hour and 10 minutes the milk in this can was firmly coagulated, and it is probable that the rennet had produced the desired effect in much less time. been raised only 1.2 degrees, or to $66.2^{\circ} \mathrm{F}$. In the light of these experiments it is believed that if a rennet solution of this strength is added to condemned market milk, ' satisfactory
results can be secured under ordinary conditions without the disadvantages of the other methods which have been tried.
If a 3 per cent solution is made from rennet If a 3 per cent solution is made from rennet,
strength of 1 to 30,000 , about $2 \frac{1}{3}$ ounces $(80$ quired for a 10 -gallon this solution will be reature of $53^{\circ}$ or higher. The cost of the material for this method of denaturing is very small, be
puit
It is recommended that those who contemplate using laboratory before using them in practice, so as to know definitely the strength of each solu tion prepared.

## Babcock Testing

Editor ". The Farmer's Advocate.
Kindly give some help about cream testing Have bought a Babcock and find cream bottle these are to be used. with only half quantity cream, or with a 9 c.c. pipette or measure, buit the pipette recoived is marked 10 c.c. Have tested two lots of cream, one to $35 \%$, the other to of this amount to allow for extra 1 c.c. in size of pipette? I am trying to find out what our butter maker is doing to me. Many of his pat rons say he does not test fairly and I have good reason to bellos $28 \%$ an will be sur ursi lond lot goes over $30 \%$. Ans.-If the instructions received with the test state that 9 cubic centimeters are to be used for the sample then it is likely that the bottles are so graduated that with a 9 grms, charge, the percentage
bottle. A 10 c.c. pipette should not be used, and for accurate results the sample shóuld be weighed. Approximate results of the test by the use of
the 10 c.c. pipette may be worked out as follows: the 10 c.c. pipette may be wo
10 c.c. of creann tests $35 \%$

1 c.c. of cream tests $35 \%$ divided by ten.
This is assuming $35 \%$ divided by ten $=31.5 \%$. ed to give the percentage of fat direct, when a 9 gram charge is used.
F. H .

## A 35-pound•Cow

Holstein-Fresian world records are recorded in diak to succession. The greatest at time of goSpring Farm Pontiac Lass, 106812, (aged five yeers, five months and twenty days, ) which in seven days yielded 35.32 pounds of buttor-fat or
44.15 pounds of butter as calculated on the 80 per cent basis, her milk production being 585.5 per cent basis, her milk production being 585.5
pounds testing 6.088 per cent fat. Her thirty days' offficial record was 172 pounds of butter ( $80 \%$ basis,) or 187.6 pounds of butter-fat Spring Farm Pontiac Lass is evidently one of
those wonderiul cows capable of drawing to a great extent upon their stored up body fat, for the man who put her through the official test
seys she had lost four hundred pounds in weight says she had lost four hundred pounds in weight
-though whether this loss all occurred in thirty -though whether this loss all occurred in thirty somewhat longer period is not made clear. It is
serter certainly hard to see how a cow could lose four
hundred pounds in thirty days. Anyway there hundred pounds in thirty days. Anyway there must have been a heavy draft upon stored-up tis-
sue, which would account for the abnormally high test. Still the record is a great one, and Francis M . Jones, of Clinton, N. Y., who bred, raised and developed her is entitled to high encomiums. This young cow was sired by King of the Pontiacs
and dropped by Tweede De Kol Lass, A. R. O, 34.31 ths. She is nearly all black in color and is described as a low-set, wedge-shaped, extremely long cow, with a head of dairy type, large and prominent eye. As a milk-making machine she is a wonder

## HORTICULTURE.

## Orchard Planting.

O for a scientist ! Every walk in the orchard
discovers a new trouble. The frost certainly killed all the earlier blossoms, for they are quite a sprinkling of late blossoms and. There is the trees and the bees are busy among them, I all hopeful that we shall, at least, have eating
apples next fall. But the two sprayings of kerosene emulsion failed to destroy the aphids. They are not so plentiful as they were, but there are still altogether too many of them. Here and there I find a blossom stem encrusted
with them, and there is a scattering of them with them, and there is a scattering of them
everywhere. Some orchardists were hopeful that everywhere. Some orchardists were hopeful that
the frost had killed them. but I do not think it
has had much effect. This is a newly observed has had much effect. This is a newly observed
pest in this district, and from what I hear it is
very preval very prevalent. And now there seems to be
something else the matter. A lot of the leaves something else the matter. A lot of the leaves
are wrinkled on the tops, and puffy on the under side. In many cases they have separated into
two layers As layers. is something entirely new
me I am enclosing a couple of leaves to find
out what the editor has to say about them.
Possibly their condition is due to the frost, which was certainly much more severe than most

If a man could only know as much before he
starts a job as he does after it has been finished, work would be a great deal easier. I feen finished, had everything just right when starting to plant, the new orchard, but $I$ : learned a few things. We planted cherry trees for fillers. and right after the apple trees were planted. We made a fairly good job of planting the apple trees. Though the rows are not so straight they are not so bad. Here end there of them be out an inch or two. but the stretched may marked wire kept us fairly straight in spite of the rolling ground. It is only when you look across the field corner ways that you notice the
little mistakes. But the great mistake was in imagining that if I got the apple trees in straight I would have no trouble putting in the fillers by sighting along the rows of apple trees.
This had to be done by sighting along the rows This had to be done by sighting along the rows all the mistakes of the apple-tree planting, these mistakes were multiplied in planting the cherry
trees. After- the first trees. After- the first couple of rows of fillers in slighting, but matters they would help me steadily. As Nature has not fitted me with enough eyes to enable me to sight in six different
directions at once, the prollem was too deep for


Spring Farm Pontiac Lass.
World's champion seven-day butter
me. I know that we should have planted the were after each row of apple trees, and there purpose, but nobody told me. When we found out it was too late to do things right, for the planted trees made it practically impossible to cherry trees as best we could. and I danced around like a hen on a hot griddle trying 'to
sight in six different directions without delaying the work of planting. The result is not what you would call a fancy job of planting, but I
have seen worse. In fact the trees are in better have seen worse. In fact the trees are in better
line than in most of the orchards I know of, but they should be right. Of course. the fillers will be cut out sometime in the future and the
orchand will then look all right. but I shall have to wait a good many years before it looks as should like to have it.

Planting the young orchard was not the joyous job I had expected, for there was less hope in the work than I would have liked. The trees arrived in such condition that it seems hardly possible that even a decent percentage of them
will live. The box in which they were packed was broken, most of the packing had fallen out, and they were as dry as last year's brush. They had been twelve days coming from Welland, and
had been exposed to the hottest weather of the had been exposed to the hottest weather of the
season. They might have been delivered with a season. They might have been they were delivered by the railways. People who saw them at the station advised me not to accept delivery, but I
called up the nurseries and the manager asked called up the nurseries and the manager asked ing them over night, and then heeling them in a wet place. This was done, and with the help of two men who have had experience in planting we put in the trees according to the andere nurserymen. I was anxious to give the trees a chance, not only because I did not want to see so large a shipment destroyed, but because we have been preparing to plant this orchard for the past year. Last fara a plowed under, and preparations made
o give the young orchard every chance. If I I re he work trees a whole year would be lost, and The nurserymen promised me fair treatment if i would plant the trees, and now I am waiting to y soaked before planting, ten days ago, and have had two good showers of rain since they were planted, I cannot find a bud that has even wollen. If they do not grow it will mean a

Almost all the fruit trees that came to this ways for rrived in a dried-out two weeks. All the trees ers refused to accept them. There is surely something wrong about this, but what is the please, when they please, and how they please I have had enough experience with them in the matter of giving signals at level crossings to
know that they cannot be compelled to obev the know that they cannot be compelled to obey th Board, trains are passing every day without giv ing signals, and a few nights ago I saw an express train tearing along at full speed without ing the whistles. Apparently that is simply a indication of the regard they have for the rights of the people in all their transactions. Some time ago I saw a report furnished to the Rail
way Board in the case of Way Board in the case of a shipper who ha feed his cattle for several days until the mex market. The troubl W a 8 due to the fact
that the local train on which he depended $f 0$ the delivery of his cattle ous points to give var ous points to give the
right of way to through
specials. It does not specials. It does not
seem right that loca
shippers should shippers should , ha a ve ed on account of th ed on account of the
through freight. I haye
been told that been told that the do-
lay in the delivery of
truit trees has been du fruit trees has been due
to the same cause. The through frcight on the
ratiwayspas in ing
through thto saction throngh thts section
so heavy that the local
freight is of no importance in comparison
and it is largely left to
take care of itself
 country harse of the the railways, it suems to me that they should have fairly decent service. It is a trifle hard to reconcile the fact that the railways are able to do what they like with the fact that we are all "sovereign voters." That phrase sounds fine at election timie, but it does not seem to
amount to very much between elections.

## FARM BULLETIN.

## Inspection to Inspire Confidence.

Editor "The Farmer's Advocate. . attention has During the last lew years pablo Canadian been largely directed to the question of Cad, late general manager of the Bank of Nova Scotia, led the way, and later, writers like Peter McArthiur and some of our publications have taken the matter up. In the past the Canadian public has
had the utmost confidence in the stability of the Canadian banks. The average citizen was absolutely sure that the Canadian banking system was the most perfect in the world: that de-
positors were absolutely safe, as they were guarpositors were absolutely safe, as they were guar-
anteed by the Government, and had a pity anted by the Governiment, and had a pity countries, and especially that of the United States. In this belief he was confirmed by the Canadian press, by boards of trade and bankers
generally, and citizens were assured that there was something mysterious and holy about banks and banking, which the ordinary mind could not compass, and should not attempt to enquire into.
This feeling of security was so general and This feeling of security was so general and
so strongly held that we have passed through several periods of extreme depressions, (and in the U. S. financial panic) with hardly a question as to the stability and security of our Canad-
ian banks. During the last decade this feeling has been changed to one of apprehension, nervousness and doubt. Failure after fallure of imporness and doubt. Failure ater fallure of impor-
y to mismanagement and dishonesty at the head ofices. There is a growing feeling that large amounts of capital are being used in stock ors and others, that are on friendly terms with donied the general public. Then it has finally Aitered in to the cometiourneese of the everage depositor that depositors are not safe, that they have no guarantee and that the old saying "As safe knowledge of the actual conditions the doubt and urest becomes intensified, so that should a com aprcial panic set in we would undoubtedly have a the very people who have in the depositor tower of strength to the banks through thei coolness and support in times of depression.
The whole business of the country rests on confidence and the restoration of public confidence radical measuros. Tinkering with little amendments, shareholders' audit, etc., will never reassure the people. Give the country a Banking
Commission of strong men like Mr. McLeod, and ommission of strong men like Mr. McLeod, and With power to control, not only to audit head actual business of the country and to check the perulators, great or small, to see that a large of stress, and other reforms that men of special or stress, and other reforms that men of special
Carledge and business capacity could suggest.
Co., Ont.

Sudden Deaths of Young Cattle. DF. J. H. Tennent, one of the Dominion Vet erinary inspectors, was recontly callod upon to make inquiry into the death of a valuable three-car-old heifer, just in milk, and two yearling Ont, farmer, after two or three days' illness. The animals had been running on pesture for a short time and showed no previous symptoms of illdence of great distress, staggering in the evt throwing up and turning the head, going ruund and round and then felling down heavily gn their exides, expuring as in severe pain. Post mortem parently nothing in the stomach. No poisonous weeds were observed on the pastures, but some musty fodder had been eaten before going
out a couple of weeks prexious. The symptons were a couple of weeks presious. The symptons Tennent took samples of blood, brain and other organs for transmission to head quarters at Ottawa for further official examination. the case heing such as to warrant thorough research. In vetermary medicine of the ci, is Experiment Station Record, just to hand, a report on "Forage poison in horses, cattle and mules, so-called serebro-spinal moninigitis and commonly called taggers," by $\mathbf{R}$. Graham, of the Kentucky Sta "An outbreak of for
in a majority of cases to unsound corn, fodder or fermented silage is sald to have occurred in Kentucky during the fail and winter months of
1911-12. Horses were attacked more than cattle, and cattle were more susceptible than mules The author states that the cause of the disease was so varying that it may be described es occurring in two and perhaps three types; the acute
or rapidly fatal ; the subacute, which generally onds in death; and the chronic or milder form from which the animal under proper care and
treatment may recover. It was often observed in cattle that the first animal affected in the erd died much sooner than the animals subplete recovery from a mild or chronic form o the disease only to succumb in a few davs or解 week the on a recontraction of the disease to a second. The acute form is said to be more prevalent
than any other, especially in horses and mules. the animals so affected succumbing in from wo to three days from the time the first were frequently found dehd in the morning that evidenced no symptons of illi-health on
the previous day. Horses were attacked the previous day. Horses were attacked at work in the field and died within a hours staniting. whive symptoms of subacute cases were of from three to nine days duration.
Thie symptoms of the chronic form are mild, such tion in walking, followed three days.
"In response to a set of questions sent out
to veterinarians in the State, reports were received of the deaths of 100 of 134 cows affectBactericlogical examinations bactericlogical examinations
two veterinarians reported slight success in nolution of potassium permanganate. The best method of combating it lies in prevention ; foed should not be fed to animalls. It is stated that at the kimendorf farm, one of the largest stock farms in this country, where the ded, no cases appeared. float and only sound corn

## The National Record Board in Annual Meeting.

The dinnual meeting of the National Recond Board, composed of representatives from the var ous Dominion Live Stock Associations, was held 23 rd . A goodly number were on hand, including ville ; John Bright, Columbus; Robt. Miller, Stouffimissioner ; R. J. Mackie, Oshawa : James BowGan, Guelph: T. A. Cox, Brantford; J, M, Gardhouse, Hightield; A. J. Dolson, Norval St. Fred Richandson, Columbus; Robt, Graham, Dryden, Brooklin; Peter Christie, Manchester Peter White, Pembroke; B. A. Bull, Brampton ton: W. WeCrae, Guelph ; Wm. Hendrie, HamilHay; Jos. Brethour, Burford'; K. Featherston Hardingille ; Geo. Douglas, Mitchell; R. H Victor Shorndale : L. J. C. Bull, Brampton Touringny, Victoriaville, Que, : J. Aue. Paqui Paide Que., and John W. Brant, Sec
Board Commitlee, presided, and in of the Recor marks, referred to the past year as th opening re in the history of the Board. His address lai which were discussed at some length, viz. national or international winter show for CanAda, (2) the report recently made to the of operation in the Naciation, re relative costs ed from them, and (8) the so-called grievance the Western breeders. With regard to this latter subject, he believed that the Board had Western breeders used better judgment at the tion time, they might easily have had more thought, is due the Board. The agitation, he thought, is due to a few breeders, and is no supporterd by the majority, Of ten representa present at the meeting.
Robert Miller, discus
Robert ililer, discussing the report made by Jas. Rettie and D. C. Flatt, to the Holstein remain aloof from the National for them t that the National Records could not easily be criticize if they . They are open to anyone to breed societies now included and the fact that all fied, is very good proof of the value of the Records. He believed that the cost of of the of putting out the pedigrees of Holsteins is much only are given in the former while and dam is given in full on the dam's side in the lagree The report made by Messrs Flatt and Rettie was believed to be unfair, and an invitation had beon Ottawa and examine the workings of the go to offawa and examine the workings of the Record so far he had declined. It was estimated that tion could be done in the the Holstein Associa$\$ 2,600$, one-half of which, or $\$ 1,300$, would be that by the Association, and it was his belief ing done under present conditions. He believewould if thorough investigation were made, it National Records.
agitating the minds up the question 'which is The Record Board had been criticized with re whid to the representation on 12, something over constitution as now standing no composing the Board of members elected by the various Breed
Associations. He believed that the Western that their desiren generously dealt with, and the constitution to force the Minister to change
not tomatically should geographical position does not count, and that men should be the staiddard-not place of resicould be manipulated and representatives might get on the Board with no more interest in the
breed they represented further than to satisf the selfishness of some friend. The shoe is not
all on one for all on one foot. Under the proposed regula
tions, in some respects, the Western would be worse off than now, and a complete statement of grants showed that, in a many cases
to the Percheron and Suffolk horse societies and which get much larger grants out West an extremely large proportion of their Board membership in the West. Mr. White suggested out the scheme. Ln reference to passenger rates to annual could come East ailer pointed out that lreeders fare on excursions which run nearly over hall during the winter. James Bowman, who has had considerable ex perience in the West, expressed the opinion that quite local in effect. The subject of an International Winter Show was introduced by Geo. Pepper, who placed his ideas in the form of a lengthy resolution, "that
we respectfully request the Minister of Agriculwe respectifully request the Minister of Agricul-
ture, Mr. Burrell, to appropriate the sum of $\$ 100,000$ per year for ten years for the purpose of establishing a Canadian National Winter Live
Stock Show, embracing all kinds of live stock Stock Show, embracing all kinds of live stock seeds, fruit and flowers and pouiltry. minion Minister of Agriculture or Live: Stock Commissioner, who shall be the President or Chairman, and twenty-four members to be elected each province with one other mommissioner from by the Minister of Agriculture in each province, and six members, appointed by the Dominion Minister of Agriculture. The Executive shall have charge of the entire management of the
show, taking all receipts and paying all penses, including the expense of paying all ex-
of all expibits. of all expibits.
breed organizations interested a sufficiation and pay 'premanizations, but the management of to matters pertaining to the prize list, awarding the prizes, etc., in connection with the different organized associations shall he in the hands of Only in case of dispute or necessity shall the Executive interfere with the conduct of the competition of any of the departments. This Committee shall, when organized, locate the sho where it will be most convenient for all Canconsideration can be obtained.
A. Committee was nomlinated in the resolution resolution as, worded was open to some criticism and after considerable discussion Peter White chanced the wording to the following, which was carried unanimously. This Board is unanifor the holding of a truly national acricultural show, including live stock, seeds, poultry, etc and orcranized on hroad national lines, and hav Dominion acricultural interest ine covering every mittee composed of the National Tive Stock Record Committee and. Victor Sylvestre, W. F Steohen, Senator Talhot, W. H. Sharne. M. P. R. Graham and Ceo. PcFwen. Wm. Rallantyne. the Chairman of the Record Board interview the Minister of Agriculture and arrange for a meet-1. Whe new officers elected were: Hon. Pres. M. P. Reoresenting heavy horsos. Peter White licht horses. Hon v. Farneaus: heef cattle, Robt. Millar: dairy cattle. W. F. Stanhon: sheep. T.
M. Fardhouse: swine. T. F. Rethour. The ranort, of the Record Committee to the Roard showed all the affairs of the Asanciation

## Federal Aid Asked.

President R. J. Fleming, of the Toronto Winter Fair Association, Mayor Hocken and Controller Foster waited on the Dominion Minister of Agriculture, last week, asking Federal support winter in Torsin. was given and the matter will be considered by the Cabinet. No grant, however, will he avail able this season, but may be forthcoming for
an exhibition in 1915 . . in 1915
Editor " The Farmer's Advocate,
Your attitude in regaral to the revision of
the Bank. Act cannot be toon highly commended If only the farmers would stand tomether questions of superior importance instead of divid ing themselves in party camps, what a change or the better would await us ! May your seed bear its fruits, the earlier the better.
Prescott Co., Ont.

Results of over seven hundred complete analy ses of oat kernels made in Britain during several
years seem to indicate that the variation of the years seem to indicate that the variation of the principal. constituents of the oat kernel is great

## THE ROYAL BANK OF CANADA

## Capteal Authorized - 8 25,000,000

 Capital Pald Up 13,000,000 head orfice: montreal Branches throusfout every Provinceof the Dominion of Canada.

| Accounts of Parmers <br> invited. SNale Notes <br> collected. |
| :--- |

Savings Department at all Branches

## Markets.

## Toronto.

geview or last week's markets At Wsst Toronto, on Monday, May 28 ,
receipts at the Union yards numbered 90 cars, comprising 2,042 cattle, 352 hogs, 84 sheep, 61 calves, and 18 horses. No
sales made. At the City yard. there sales made. At the city yard, there
were 13 cars, comprising 215 cattie, 78 hogs, 25 sheep, and 66 calves. Trade was slow, with prices steady, at last week's quotations. Butcher steors and heifers sold at $\$ 8$ to $\$ 6.90$; cows, $\$ 5$ to
$85.75 ;$;ulla, $\$ 5$ to $\$ 5.50$; hogs, $\$ 9.50$, The total re
City and Union Stock-yards stock at the were as followa

|  | City. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| Cars ...... | 27 | 865 | 395 |
| Cattle ...... .- | 547 | 5,289 | 5,830 |
| Hogs ...... | 511 | 5,995 | 6,506 |
| Sheep ...... . | 409 | 1,450 | 1,859 |
| Calves ..... | 130 | 557 | 687 |
| Horses |  | 50 |  |

The total receipts of live stock at the wo markets for the corresponding week


The combined receipts of live stock at
the two markets for the past week, show 3,584 hogs, 504 car loads, 667 cattle, but an increase of 435 sheep, compared With the same week of 1912 .
While the receipts of live stock were liberal last week, it will be seen by the those of last year for the same week,
still the supply was about equal to the still the supply was about equal to the
demand. Last year there was a fairly large number being imported; this year there are scarcely as many hundreds as there were thousands going to the Brit
ish markets. Trade was very active al week, at practically the same prices in vious week.
Exporters.-William Howard bought for wift \& Company, of Chicago, 135 steers or export, weighing 1,250 to 1,325 lbs
$\$ 6.90$ to $\$ 7.15$. This same lass of steers was selling from 75c. to $\$ 1$ per cwt. higher one year ago.
Butchers'.-Choice steers of export
wher weights and quality, were bought for
ocal killing at $\$ 6.90$ to $\$ 7.15$, and one or two loads at $\$ 7.25$; good to choice,
$\$ 6.60$ to $\$ 6.80$; medium to good, $\$ 6.15$ $\$ 6.60$ to $\$ 6.80$; medium to good, $\$ 6.15$
to $\$ 6.50$; common, $\$ 5.50$ to $\$ 6$; choice o $\$ 6.50$; common, $\$ 5.50$ to $\$ 6$; choice
ows, $\$ 5.50$ to $\$ 6.25$; good cows, $\$ 5$ to
$\$ 5.45$; medium cows, $\$ 4.25$ to $\$ 5.75$; common cows, $\$ 3$ to $\$ 4$; choice bulls,
$\$ 5$ to $\$ 5.40 ;$ common, $\$ 4.50$ to $\$ .75$. 850 lbs., sold at $\$ 6$ to $\$ 8.35$; stockers,
600 to 700 lbs., $\$ 5$ to $\$ 5.75$; common Milkers, $\$ 4.50$ to $\$ 5$.
milkers and springers during the week FRUITS AND VEGETABLES
were moderate were moderate, with prices steady, at
$\$ 45$ to $\$ 75$ each. But there were one
or two extra large Holstein cows with fine milking qualities, that sold at $\$ 8$ to $\$ 90$ each.
Veal Calves.-While the deliveries of
veal calves, were large, prices remained
steal veal calves, were large, prices remained
steady to firm, as follows : $\begin{gathered}\text { Choice } \\ \text { caives, s9 }\end{gathered}$ calves, $\$ 9$ per cwt.; good calves, $\$ 8$ to
$\$ 8.50$ medium to good, $\$ 7.50$ to $\$ 8$;
common calve common calves, $\$ 5.50$ to $\$ 6.50$ per cwt. Sheep and Lambs.-Receipts were
larger, and prices easier. Ewes sold larger, and prices easier. Ewes sol
from $\$ 6$ to $\$ 6.50$; rams, $\$ 5$ to $\$ 5.50$
yearling lambs $\$ 7.50$ to yearling lambs, $\$ 7.50$ to $\$ 8.50$ per $\$ 6.50$. spring lambs were from. $\$ 1$ to $\$ 2$ per
head lower than in ur last report. head lower than in our last report.
The bulk of the spring lambs sold at $\$ 5$
to The bulk of the spring lambs sold at $\$ 5$
to $\$ 7$ each, but there were some samall
lambs sold down to $\$ 4$ each.
Hogs.- Selected hogs, fed and waterec
sold at $\$ 9.75$ to $\$ 9.85$, and $\$ 9.50$. b. cars at country points, and $\$ 10$ t
$\$ 10.10$ weighed ofl cars. Horses.-Trade at the Union Horse Ex-
change, Union Stock-yards, to have been fairly good. Several loads
of horses were sold to go to ottawa of horses were sold to go to Ottawa,
Montreal, and other outside points, be Montreal, and other outside points, be
sides any private sales being made to
the sides any private sales being made to
the local trade. The bulk of the horses
sold were heavy-drafters. Prices were
pores.
 general - purpose horses, $\$ 150$ to $\$ 22$ express horses, $\$ 160$ to $\$ 225 ;$ drivers
$\$ 100$ to $\$ 150$; serviceably sound, $\$ 45$ to $\$ 90$ each.

BREADSTUFFS
Wheat.-Ontario, No. 2 red, white or
mixed, 95 . to 97 c ., outside; inferior grades, down to 70c.; Manitoba, No. track, lake ports. 2 northern, 984 34c., outside; 38c., track, Toronto; Mani toba oats,
lake ports.
Rye-No.;
2, lake ports. Rye-No. 2, 60c. to 88 c .
outside. Peas-No. 2, 90c. to $95 \mathrm{c} .$, out
side
 feed, 48c. to 48c., outside. Corn-No.
2 yellow, 57 flc ., Midland. Flour-Ninety
per2 yecow, Ontario winter-wheat flour, $\$ 1$
per-cent
to $\$ 4.05$, seaboard. Manitoba flourPrices at Toronto are: First patents;
$\$ 5.40 ;$ second patents, $\$ 5$; in cotton, \$5.40; second patents, $\$ 5 ;$ in cottoin,
10. more; strong bakers, $\$ 4.80$ in jute.

HAY AND MILLFEED
Hay.-Baled, car lots, track, Toronto,
$\$ 12$ to $\$ 13$ for No. 1, and $\$ 10.50$ to $\$ 11$ for No. 2.
$\$ 9$ to $\$ 10$ per ton. $\$ 18$ per ton; shorts,
Bran. - Manitoba, Bran.-Manitoba, $\$ 18$ per ton; shorta,
$\$ 21$ Ontario bran, $\$ 18$ in bags; shorts,
$\$ 21$, car lots, track, Toronto. SEEDS.
The seed market is past for the present
COUNTRY PRODUCE.
Butter.-Market easier. No. 1 cream
ery, 27c. to 80 c.; creamery solids, 27 c ery, 27c. to 80c.; creamery sollas, 270 store
Eggs.
22c.

Cheese.-New, twins, 14c.; large, 18c.;
old, twins, 15 c .; large, 14c.
Honey.-Extracted, 18c., and $\$ 2.75$ Honey.-Extracted, 13c., and $\$ 2.75$
$\$ 3$ per dozen for combs. to 60 c .; New Brunswick; Delawares, 650 to 70c. per bag, car lots, track, To
Poultry,-Since spring lamb has come declined, notwithstanding receipts have
been light. Turkeys, 20c. to 22c.; last been light. Turkeys, 20c. to 22c., las
year's chickens, 22c. to 23c.; hens, 16c.; year.
spring chickens, dressed, 50c. to 55 c c. pp
lb.: spring chickens, alive, 45 c . per 1 b . hides and skins.
No. 2 inspected steers and cows, 13 c , No. 3 inspected steers, cows and bulls, 11 c .; city hides, flat 12 f c .; country hides,
cured, 12 tc .; country hides, green, 11t cured, 12 hc .; country hides, green, 11 lc c.
calf skins, per lb., 16 c .; deacons, each, $\$ 1.10$ to $\$ 1.25$; lamb skins and pelte
15 c . to 25 c . each; sheep skins, $\$ 1.50$ to $\$ 1.75$ each; horse hair, 37c. per
horse hides, No. 1, $\$ 3.50$; tallow, No. per 1 b ., $5 \frac{1}{\mathrm{c}} \mathrm{c}$. to $6 \frac{1}{2} \mathrm{c}$.
wool.
Unwashed, coarse, per $1 \mathrm{lb},. 14 \mathrm{c}$.
Unwashed, fine, per $1 \mathrm{lb} ., 15 \mathrm{c}$.
vegetables. Apples. - No. 1 Spies, $\$ 4.50$ to $\$ 5.50$;
No. 2 Spies, $\$ 3.50$ to $\$ 4$ per barrel;
other grades and kinds of apples range ther grades and kinds of apples range
from $\$ 2.50$ to $\$ 3$ per barrel; onions, rom $\$ 2.50$ to $\$ 3$ per barrel; onions,
Spanish, $\$ 2.75$ per sack of 112 liss; oets, 35 c . to 40 c . per bag; carrots, 40 c .

- 45 c . per bag; parsnips, per bag, 50 c . 60c.; cabbage, \$8 perr care for now;
asparagus, 60 c . per dozen sparagus, 60c. per dozen; American
trawberries, 15 c . to 18c. per quart, bs strawber
the case.


## Montreal.

Live Stock.-The tone of the market
for cattle was firm last week, owing to
limited supplies. Choice steers sold at ${ }^{7}$ tc. per per lb., while fine brought about re., and good from 6 ge. to 7 c ., and
down to 6 k . Medium grades sold at bc. to 6 rc c., and common down to $4 \mathrm{4c} \mathrm{c}$.
Oferings of sheep and lambs were 'small, and prices firm, being 7c. to 8c. for
sheep, and 8 fc . to 9 c . for yearlings sheep, and 8yc. to 9c. for yearlings,
while spring lambs sold at $\$ 5$ to 812 eech, according to quality and size. Calves were steady, at $\$ 2$ to $\$ 10$ each,
according to size, and hogs showed little achording to size, and hogs showed little
change, being 10 jlc , to 10 ge . per lb . for change, being 101c. to 10
selects, weighed of cars.
Horsee.
Horses.-The market for horses showed very little change. Dealers reported a
moderate demand. At this time of year there is frequently a good turn-over, end calty this year in disposing of all the have $\frac{\text { on , hand. }}{}$ Heavy-draft, 1,500 to
1,700 lbs., $\$ 300$ to $\$ 350$; light-draft, 1,400 to $1,500 \mathrm{lbs} ., \$ 225$ to $\$ 800$; light
hórses, 1,000 to 1,100 lbs, $\$ 125$ $\$ 200$; broken-down, old animells, $\$ 175$ to $\$ 125$, and choicest saddle and carriago Poutm, $\$ 850$ to $\$ 500$ each.
 1b.; geose and fowl, 15c. to 170 .; ducks,
20 c . to $22 \mathrm{c} .$, and chickens, 18 c . to 19c.
Dressed Hoga and Provisions. - Dresed Dressed Hogs and Provisions.-Dressed
hogs advanced slightly in price. Abat--
 Potatoes. 14 c . per lb .
a poor quality, for the most part, but prices continued at about former range,
bing 60. and $^{\text {to }} 65 \mathrm{c}$. per 90 lbs. for Green Mountains, track, in car lots, and 50 e . to 85 c . for Quebec grades. Smaller lots
tbout 25 c . to 80 c , more. bout 25c. to 80c. more. Syrup and Honey.-The market for
maple syrup continued moderately active and prypup continued moderately active,
and prices were steady, being 850, to and prices were stiady, being 85c, to
90. per tin, and 7. to 8c. per 1 b . in
wood. Maple sugar. sold at 11c. to 12 c . wood. Maple sugar sold at 11 c . to 12 c .
per 1b. Honey dull and steady, whito
clover comb being 16c, to alover comb being $16 \mathrm{e} . \operatorname{to} 17 \mathrm{e}$, per 1 lb .,
and extracted 11 fc . to 12 c .; dark comb 14c. to 15 qc ., and dark, strained, 8c.
to 9 c . Eggs-Coming forward freely, and the
quality shows some deterioration, at
21c. to 28c. per dozen, according to 21c. to 23c. per dozen, according to
quantity.
Butter.-Prices of creamery were fully Butter
up to those of the week before, so that
there was no dispositlon the market. Finest goods were in de maind, and prices ranged from 26c. to
$26 \frac{1}{c}$ c., in a large way, while Ane were abc.. in a large way, while Ane were be had around 2 c. per 1b., and dairies
were 21c. to 22 c . per 1 b . Cheese.-Western fodders were still quoted at 11 tc . to 11 tc, and Eastern
fodders at 10 fc . to 11 c . Grain.-Oats, 42c., ex store, for No. 2
Canadian Western, and 41 tc. for No Canadian Western, and 41 c . for No.
extra feed, and 40 jc . for No. 1 feed. extra feed, and 401 c . for No. 1 feed.
Ontario malting barley is still 61c. to Ontario malting
64., ex store.
Flour.- $\$ 5.40$ per barrel, for Manitoba
frst patents, in bags; $\$ 4.90$ arst patents, in bags; $\$ 4.90$ for seconds,
and $\$ 4.70$ for strong bakers.'. Ontario winter - wheat flour, $\$ 5.25$ for patents, and $\$ 4.75$ to $\$ 4.85$ for straight rollers;
Millifed. - Bran, $\$ 18$ per ton, in bags; Millfeed.-Bran, $\$ 18$ per lon, in bags;
shorts, $\$ 21 ;$ middlings, $\$ 22$ to $\$ 28 ;$
mouille $\$ 32$ ta $\$ 88$ per ton for pure, mouille, $\$ 32$ to $\$ 83$ per to
and $\$ 27$ to $\$ 29$ for mixed.
Hay.- $\$ 13$ to $\$ 13.50$ per
Hay.- $\$ 13$ to $\$ 13.50$ per ton for No,
baled hay, car lots, track; $\$ 11.50$ to $\$ 12$ for No. 2 extra; $\mathbf{\$ 9}$ to $\mathbf{\$ 1 0}$ for No, 2 ordinary, and $\$ 8$ to $\$ 9$ for ordinary. steady, being $\$ 4.50$ to $\$ 7.50$ per 100 libs. Por timothy seed; $\$ 18$ to $\$ 26$ for
clover, and $\$ 22$ to $\$ 28$ for alsike.



Sheep skins, $\$ 1.10$ each, and horee hides 81.75 and $\$ 2.50$ each. Tallow, 1 to. to
$\mathbf{3 c}$. per lb . for rough, and 6 c . to 6 d . 3c. per 1 b . for
for rendered.

## Chicago.

steers, - 6.88 Bees, 87.10 to 88.85 ; Terae teeders, $\$ 7.80$ to $\$ 87.70$; stows and hoilforl,
$\$ 3.80$ to $\$ 7.20$, $\$ 3.80$ to $\$ 7.90$; calves, 37.25 to $\$ 10$.
Hogs.-Light, 88.40 to 8.021 . Hogs. - Light, $\$ 8.40$ to 88.62$\}$ mityd,
$\$ 8.38$ to $\$ 8.62 ;$ heavy 88.05 to $\$ 8.57$ t; $\$ 8.88$ to $\$ 8.62$; heavy, 88.05 to 88.57 \%;
rough, $\$ 8.05$ to $88.20 ;$ pigs, 88.50 to
$\$ 8.80$; bulk of sales, $\$ 8.55$ to $\$ 8.60$. $\$ 8.30$; bulk of sales, \$8.55 to \$8.60,
Sheep and Lambs.- Sheop, native, \$5.2s Sheep and Lambs,-Sheop, native, $\$ 5.93$
to $\$ 6 ;$ yearlings, $\$ 8$ to $\$ 6.60$; lambe,
native, $\$ 5.75$ to $\$ 7.65$.

## buffalo.

Cattie--Prime steers, 88.40 to $88.50 \%$ shipping, $\$ 7.75$ to 88 ; butchers', 87 to
$\$ 8.25$; cows, $\$ 8.75$ to 87.50 ; bulle, 85,75
 heifers, $\$ 5.50$ to $\$ 6.50$ to se; stock
feeders, $\$ 6$ to $\$ 7$; freah sows and spring
ers, 8.5 to rs, $\$ 35$ to $\$ 85$.
Veals.- $\$ 6$ to $\$ 11$
Hogs-Hear, 88.80 to 88.90 ; mirod,
$\$ 8.85$ to 88.90 ; Yorkere, 88.80 to 8 .
 pigs, 88.90 ; rougho, 87.75 to 87.85 ;
stags, 86.50 to 97 ; dairies, 88.05 to
88.90 .

Cheese Markets.
 Peterboro, 11tc. to 118 . 8 -16c.

## Gossip.

## SALE DATES ANNOUROMD

 June 4th.-John D. Duriceth, Howlok, Que.; Ayrshires.une 25th, -T. E. $\&$ tin. C. Bobson. Iderton, Ont;; Shorthorna

An auction sale of., Guiernagy, by IR rosulted in Ville sova, Pa, iliy 1 stith. 95 head. The top price for a fomate Wan 81,500 , for the threp-goemple eow Hondiaux, five yeurs old, nold for 11,000 , and another, same age, brought the
price. The higheat. price of the silo \$2,000, for the three-yonrold bull, Roolkingham.

## WON By hearts of

 OAK.The contest for the King's Plate for ronto, on Saturday, May 24th, Foultod in an easy vietory for the throo-youn-old bay colt, Hearte of Oak, by Basoetlaw. dam Lady Lightfoot II., owned by Harry
Giddinge, Cedar Grove Farm, Oakvillo, Ont., Jockey Wilion up, nine othor hornes competing. The omicial time of
the winner was given as 2.09 t . Dlotenco, the winne
W. G. Pettit \& Sons, Froeman, Ont., Shorthorns and Clydendeles, have recently added to their atook a very valu--
able group of eleven imported Olyder ale mares and allies, tho, three and aides, all of the cholceont breeding, and they will be pleased to show them to
anyone interested. Catalogues of pedigrees will be mailed on application. They have also for sale a low choleo young
ing.
an important ayrshire sale. The advertisement in this paper of the of the herd of over afty head of im ported Ayrshire cattle, the property of ohn D. Duncan, at Terrace Bank Farm,
Howick, Que., should attract the attention of dairy farmers. The ofering is described as the best lot ever importod
into this country, being selected from the best herds in Scotland, the cows be-
ing all entered in the test for the Record of Performance, and the amount of milk given so far appearing in the cataogue. The three-year-old stock bull,
and two young bulls; are included in the

The Pace and the Toll. (By The Spartan:)
"Amaricans are the fastest-living nation on the earth. They are fast becoming dection of an artist who has lately re turned from Europe, where ample oppor-
tunity was afforded for contemplation tunity was afforded for contemplation
and comparison. "The Southern races and comparison. "The Southern races
have reached glorious climaxes, but in-
viriably they have suddenly crashed to have reached glorious climaxes, but in-
variably they have suddenly crashed to ruin."
The statements call up rather a tragic picture, but are they not after all sug-
gestive of a very great and dangerous
truth death-or-glory competition bristle fort verywhere in America. Perhaps we do ot like war. Nevertheless, we prefer
to thousands; automobiles mangle almos qual numbers.
Such madness for speed, such lust for record-breaking in everything, is the and near kin to the-insatiable thirst for excitement of the tottering Rome in the days of the Empire.
Is there any good reason why we should
keeap the poor, law-loving body charged to the bursting - point with dynamics Need twentieth - century life be made perpetual cavalry charge ? And is th span of life so intolerably long that we
must burn out the fires that maintain must burn out the fires that maintain
it by the very quickest and most spec tacular means?
Facing these questions, moreover, stand
the unquestionable facts that the great and lasting works of mankind are no yet trailed from the tail-end of a Blerio earoplane. No; they are worked out in They require the leavening influence the days, and months, and years. Lite in America need not be reduced to the basis of a quick-lunch counter, with
Beelzebub of unrest wielding an indis Beiminate lash.
crimest wielding an indis
or "A Southern people !" That is it,-
nimble of foot, nerves a-tingle, aspiration hot and ceaseless even though in the attituce, of calmness, passions the raw edge, the meaning rest and relaxation buried with the r motest Greek mythology:
ere and relaxation we ern races, indeed. For the Latin people love their siestas. Strange, isn't it?when by all means they should be bray-
ing away on Wall street with eye single ing away on wo dollar.
If this is the case nation on earth. igh ransportation of all kinds come lige is snatched with our competence in a nomad, that competence is going be discounted by a rival nomad,-or we
might call her a rivar Amazon-Dame Yes, we can hurry in this twentieth century. Only one force in creation can
beat the pace we set, that vigilant, lightning-eyed Amazon. She will be on
hand to do the discounting. We name the speed. She collects the fare.
And of her exactions these are a few,cases of heart-failure with every tolling of an hour, asylums filled to the shin-
gles, premature deaths more numerous gles, premature deaths more numerous
than the sands of the Sahara. We hope the figures are exaggerated, but it And what of the opposing ideas, rest and relazation? "Sleep that knits up
the ravelled sleeve of care"-this is rest iterally-and eight hours of the said enormous "unravelling" of "sleeves"
hours. Let us further apply a more omely and more exacting rule.-Let the bems to be nothing in all science to hive reason, but nevertheless these most indefinably-precious gifts Nature has in her whole store-house. Comic may be braterabe, and Italian waltzes, nay be preferable, but again Nature
never fails to be at the vestibule with wide-open eyes and a toll-box, " Rest, then, and, rest literally. TThe "brain
and brawn" that built up North Aperica was nursed to maturity largely by hese very sleeping-hours, or we should
not possess so much of it to squande And in the wakeful hours-relaxation This need not be physical inertia. Do a day's work, not in Pevered spasms, but
with deliberate method ! Half of the sixteen hours ought to be enough,--then pleasant ways. It need not be ascetic in the least. Poetry can be relaxation and good prose, so with the piano and
the world of song. Indeed, the world of song. Indeed, a painter' to Lotus-fields that are nearer than they Beem, while that much-neglected art of conversation is a kindred helper. Tempus not been intended to rest and relax, creation wouldn"t have included that precious pulling down of the blinds with
each revolution of the haste-beridden old each revolution of the haste-beridden ol been made with dynamos in his epider mis, winged, and shod with seven-leagued
boots.

## Letters from Abroad.

by medterranean shores.

## Rome, April 21, 1913.

 My dear Jean,-To-day, Rome is cele brating her 2666th birthday. (Quite an hying from all the seven hills; bands are playing in the piazzes and parks, and " pa " and "ma" and all the children are . Just 2666 years said to hay, the mythical Romulus is the Palave ploughed the furrow around of Rome was built, and now first wal historians, antiquarians, and excavators,are feverishly trying to locate the exact place.
Rome is so overpoweringly historic
that it is almost depressing. as if you were wading through centuries of ghosts, and every stone you look at
seems to have a prehistoric air about it that makes you feel as new as a mushroom. I think the history of Rome
is red with blood, and based on mas sacres and martyrdoms. Some of the scenes of ane lined with pictures of gory ing butchered on the streets by brutal hacked to death with knives: torn pieces by ferocious beasts; singed with
red-hot irons, and being tortured to death in every horrible way conceivable.
It fairly makes one squirm to walk past these blood-spattered canvases.
We have been doing considerable sight seeing since we came here, and do not
feel such a vivid green feel such a vivid green as we did at
first. I often wish one could take hypodermic injections of history just before
starting out to visit monuments of past ages. It would be so much easier than
digging small-type facts out of Bedeker digging small-type facts out of Bedeker.
because, for some inscrutable reason.
o read about. There is a sad story
old of one earnest student who systematically "did" every room in a certain nuseum according to his guidebook, and When he had finished, discovered, to his the awful mistake of starting on the wrong side of the building, and taken the last room first
We are very pleasantly located here in a pension on the slope of the Pincian
hill. Our suite opens on a balcony purhill. Our suite opens on a balcony purcharming Italian garden with a rose covered pergola down the center leading o a quaint fountain in the wall. Prin
little paths, guarded by white statues anclent Romans, intersect the garden. am not acquainted with any of these ancients except Nero, that imperial natic who fiddled while Rome burned We have our afternoon tea in the garroally quite delightful except. for the
baneful presence of the aforesaid Nero. We are within a stone's throw of the Piazza di Spagna, which is the center of
loreign life in Rome. It really looks foreign life in Rome. It really looks
more like a slice of England than a bit more like a slice of England than a bit English; there are English libraries; English tea-rooms; English chemists, and
other shops of all kinds, and a big de partment store called '..Old England.' plarza is speaking English. I haven' hoaid so much of my native language any place else in Europe. It makes one
fool quite at home to see so many Eng lish signs on the street, but I must con loss 1 was startled one day when I was
suddenly confronted with this: "Presby terian Church.") I had a sort of queer carried me back to those by-gone Sundays on Uncle John's farm. II felt real good and pious for a fem minutes. Apropos of churches, I just want to tell you that there are over four hundred o
them in Rome. The amount of wealth lavished upon the interiors is something Labulous. They are perfect museums of art, but colder than Greenland. For any of them. We have adopted the plan of peeping into every one we pass, al though sometimes, if the temperature is not too arctic, we stay for a service.
Onie afternoon when we were out walking we went into fifteen churches. That ls our highest record. It was on that distinguished afternoon that Miss Morris She wanted to (or extinguished) herself Shurchanted to know the name of the
church we were about to enter, and calmy approached an elderly Italian gentleman who was standing by the door may say confidentially that her Italian has marked peculiarities, and is confine o a few words and phrases which are sometimes not understood by anyone but "Quonto nova?" said she to the man ing the name of the church. was ask The man looked at her blankly. to the church? "Non capisco" (I don't understand" good English, "I know not about egga," "'Eggs!" she exclaimed, in surprise. "No, no! I asked the name of the "Ah!", he said, smiling amusedly, A. I understand-you make one little mis ake, madame. You say nora (eggs) instand of Duoma (church), and, ${ }^{\circ} \mathrm{o}$
course, I am very course, I am very astonish.
I have been studying Italian a little
myscufe, but must say that I find the
coat-tail method much easier to acquire than the oral. It is very simple. you have to do is to pull the coat-tail
of the driver and point in the direction of the driver and point in the direction you wish to go, and when you reach the desired spot, pull his coat-taill again and
he stops the carringe While I
While I am on the subject of churches
(and you can't get away from them in Rome), I would like to toll you about the Church of the Capuchins here. It is very much visited by tour hars because
of the curious anatomical display in the crypt. There are four large there, each one ornamented with fanwith the bones ceiling decorations made order. The monks were buried at first in the plot of earth brought from Jerusalem, which occupies the middlle or and room, but the space was limited, there was no room for, the mew arrivals, so to speak. So, thousands of the oldest inhabitants of the consecrated out, and used for mural decorations. Quite an ingenious idea, wannt it ? Some of the results are very curious. In one room there is an altar of sluuls, lamp of assorted bones. In the walls are niches, and in each one to alkeleonized Capuchin monk in a dusty, brown robe, and ancient rosary
The Capuchin art craze seems to have taken the peculiar form of hldeous mor-
tuary exhibits. This one tuary exhibits. This one was loss nau-
seating than the one in the cetacomhs it Palermo. It seems very strange that ruesome places is you to these rruesome places is invariably big and that plump guides are molected with the special idea of emphasizing the comntras etween the living and the dead ? When we first came to Rome we pat-
ronized the street-cars extenslvely in our aily peregrinations, but one day whin we were in a great hurry to get some place, and all the cars were packod, someone suggested taking a cab. Har under the impression that cabs, like natrimony, should not .be entered into ightly or unadvisedly. Wo debated the expensive, but would save it might be more xpensive, but would save time, and time
was precious.
So we all piled into a taxi, and when we reached pur destinalion it registered just one lire (20 cars and taken to wo have abandonec more interesting as you dirive through all sorts of curious little back' streets, and see more of the native life of the One of the most charming things about very size, variety, and every piazza has its fountain. One of the broad basin many pennies are thrown by legend that if you drop a penny into the ountain of Trevi, you will be sure to return to Rome. The small boys in the money does not stay long an water There is a saying that in Rome one is ever out of the sight of a church, or ut of the sound of running water, and Several times a week we go met Several times a week we go up on the
incian hill in the afternoon to see the iew, and the people, and hear the band May. From the terrace one looks down on hundreds of root-gardens, and away st. Peter's. housetops to the big dome of which the sun goes doun. Here and there beyond the rooss one gets glimpses of the Campagna.

Fashionable Rome comes in carriages,
and visits are made from one carriage to another. There is a great crowa of
to people promenading under the trees, and
on the terrace, and gathered around the on the terrace, K , and wand plays.
The scene is very much enlivened by strolling groups of students with gay-
colored gowns and caps. These students colored gowns and caps. These students
are all young priests from the College of Propaganda in Rome-a tremendously large, wealthy, and powerful institution,
with thousands of pupils in attendance The color of the gown varies according to the seminary to which the students belong. The Austrians are the most
conspicuous, and can be seen from afar conspicuous, and their robes are bright scarlet. They have been nicknamed the "boiled prawns." They certainly do add to the
brilliancy of the Pincio as they promebrilliancy of the Pincio as they prome-
nade under the shade of the dark ilex trees.
Artists fairly haunt the Pincio at sun-set-time, and the Via Sistina which leads
to it is banked on both sides with the to it is banked on both sides with the
results. You can buy a gorgeous " Sunset from the Pincio,' in any color or dize you like. It is one of the popular pictures of Rome which postal-card fiends
buy by the dozen and send back to buy by the dozen and send back to Am-
erica to their left-behind friends and relations. I was so delighted to hear that you
and Jack were thinking of coming to and Jack were thinking of coming to
Europe this summer. Please don't take it all out in thinking, but buy. your tickets and start-and start soon. I'm
Just crazy to see you both again, and Just crazy to see you both again, and
awtully anxious to hear Jack orate on awfully anxious
Woman Suffrage. He used to be vio-
lently lently opposed to it, you, know, but that wact. I expect to make a thorough convert of him yet.

The New Public Health.

The Farmer's Advocate Bureau of Public QUESTIONS, ANSWERS, AND COMMENTS COM Conducted by Institute of Public Health [Questions Public Health, care addressed: "New Advocate,' London, Ont." Private ques addressed accompanied by a stimped, selfanswers. Medical treatment for indi vidual cases cannot be prescribed.] patent medicines 1. How is a layman to distinguish be
tween patent medicines that are es repren sented, and those that are fas repre understand doctors use proprietary medi cines. E. B. Ans.-Patent medicines are not mad body by the patenting process. By thi I mean that a spoonful of a patent medicine containing such and such, and a spoonful of a non-patented prescriptiom containing the same things in the same praportions, would have just the
same, as much, or as little, effect. The objections to patant medicines are that their use is based on a total misdisease, except the fact that people who disease, except the fact that people who some kind of "cure," and are ready to try anything that they can be persuaded to think may have an effect. A great
many people seem to believe that there many people seem to believe that there
is a lung disease, a kidney disease, a
ver complaint, et re rever; or "the constimply say "he has are simply hundreds of totally ${ }^{\text {dififerent }}$
common disease : at least five kinds common disease: at least five kinds of
pneumonia, perhaps thirty kinds of colds, eight or ten kinds of kidney
disease, etc., and all have disease, etc., and all have various de grees of severity; moreover the body
compensates more or less for all defects or shortcomings which the organs sufer; if it did not, almost every disease would
be immediately fatal. Fancy the be immediately fatal. Fancy the reck-
less ignorance of the innocent who goes to the store and buys some patent medicine because he thinks he has kidney disease.(!) How does he know his kidneys are affected at all? If so,
how can he tell which of a dozen differont things his kidneys are suffering from? If he knew this also, abover all how does he know what the cause is?
If he does not know the causs, If he does not know the causs, how can
he guess at how to remove the cause? So little do the public know about symptoms of disease that it is very nearly always true that no person
really suffers from the disease he himreally sulfers from the disease he him-
self thinks he has, unless it be a toothache or a corn or something like that, and even then he very rarely knows the
cause or what to do for it cause or what to do for it.
Suppose the kitchen clock is losing
俍 time or striking wrong; suppose with-
out having it examined to find out why you' reach into your tool chest in the dark, pull out any tool that your hand
catches hold of, thrust that tool catches hold of, thrust that 'tool into
the clock works, and stir it round and round I There you have an exact rep-
resentation of what the average cititane resentation of what the average cititen-
does when he buys patent medicines for does when he buys patent medicines for
diseases he things he has: Sometimes diseases he things he has. Sometimes
he has nothing wrong with him at all almost always it is something quite difierent from what he ohinkes is wrong.
Now, in this illustration you solected Now, in this illusiration you selocted
random, but at least you would know phat tool it was you had, screw-dríver, plane, saw, or hammer, etc., and even clock, still you had some idea of what the proper use of that particular tool But in buying patent medicinee, you do not oven know what you are buying, and if you did know, you have not the
least idea what its use is or how or when to use it.
You say, the directions on the bottle dell how to use it. True, but the ouly down" to this-"push it into your works, and let it rip !
You would not buy
You would not buy a jack-knife or a hat without knowing a little something about it. You would not plough half plough, or what thé effect will be. But because you do not know anything of
disease, you will buy something you know nothing of, to mix in with the troubles you already have
Proprietary medicine
Proprietary medicines possess this difference from patent medicines; the
physician is informed what drugs, and physician is informed what drugs: and
how much are in them ; he is supposed to know how those drugs act ; finally and most important, he knows, or it he really the matter with the patient, and what action from what drug may affect the disease favorably.
But with all these But with all these important advan-
tages which the physician has over thio average citizen. in using proprletary average, ctillizen, it is rieky, for prowrietary physician to know that the proprietary medicine really contains the drugs that
it is sald to contain 2 or that the amounts of each drug reenly are ai stated? Or that the combination will really do what the proprietors oleim?


Capuchin Cemetery, Rome


Why Fill Lamps and Pump Water ?
These dradecees are no longer necesearr
You can light your home and barn

Home Elactric and Water Sybtom

THE HOME ELEGTIIC LIGHT
Welland, Ont.


TIFIER
II yon haves face vold of sood looke, opot Ned, blotched, difolored and por senerallyand clear alkin, uce Hrimeeme Compleston Beautilier An ertornd weoty thtiten otmple and centionsoy tent frectioe mett ot Supantume Hote, Moled Whate ote. per-
 Hiscort INSTITUTE Eatab, 1892
is Collesto strent Toconto, Ontarlo


ARTS. EDUCATIO MEDICIME
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Irts, Summer
$\frac{\text { Arts, summer }}{\text { Session }}$
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by physicians, are really "second-hand
medicines," and the best physicians medicies, and the best physicians gon
erally do not use any but the simplest
kinds, and for the simplest purposes. If you have understood what is here
written, you will see that it is not up written, you win see that its is not up
to the layman to distinguish between
good and bad patent medicines. If the layman wants to treat disease at all,
he should study disease he should stuady disease and remember gerous thing in dealing with health and
life.
H. W. HILL. COMMON DRINKING CUPS, ETC. 2. We are constantly being warned
against using common drinking cups, towels, etc., in hotels and railway trains. It seems to me that this is a
kind of fad among doctors, and that the dangers are but slight, after all. If
I am wrong in this $I$ should like some I am wrong in this I should like some
substantial reason for being otherwise. Ans.-You are partly right. The drinking cup, etc., in railway trains, hotels, etc., probably do less harm on
the whole than they do in school and the whole
at home.
To understand this, it must be rememtain number of cases of measles, so
many of tuberculosis, so many of this many of tuberculosis, so many of thi
and that. The only way to find out
whether. Then whether one means of spreading disease
is mors or less harmful than another method, would be to trace how each
case of measles, tuberculosis, etc., is contracted; and tabulate the results. With a sufficiently large number of casees to give conclusive rules; but I was able, in the case of typhoid Pever in
Minnosotata, to conclude that 10,000 cases of typhoid fever occurring third of all, ( $\mathrm{i}, \mathrm{e}$, , about 3,300 ) ' came from drinking water into which had en-
tered the discharges of the bladder or bowel of typhoid patients ; about onethird came from eating food or drinking milk on which or into which fligs
had carried bowel discharges from non had-carried bowel discharges from non-
fly-proof toilets, used by typhoid infect ay-proor toinets, used by typhoid infectfood or milk or towels or cups, etc., handled by persons who had on the
hands the discharges of the bowel hands the discharges of the bowel
bladder of typhoid-infected persons. The diseases conveyed by roller towels may be any of those which can be conmacted from the discharges of the patient ; hence practically any of the
infectious diseases of this part of the infectious diseases of this part of the
world, from syphilis and tuberculosis to chickenpox and German measles. But they are transferred chiefly, not by
washed hands wiped upon the towel, but washed hands wiped upon the towel, but
by half - washed hands wiped upon the towel; and by the habit of wiping the
lips, not by wiping the face on the
towel.
In hotels, etc.. transients use the
towels for a day and pass on. Hence the chancs of any one transient using oxactly the same spot on a towel that
another infective transient has used, is not so very great. In schools or house the common towel, every day, it is al-
most inevitable that sooner or later, every member should receive infection
from any one sther infected met and perhaps nnot once but many times,
thus the chances are greatly multplied. H. W. Hill.
mosquitoes and disease. I have heard that mosquitoes carry
ertain disease in tropical countries. Do mosqutoes in this climate also carry
diseases? What precautions can be taken to get rid of mosquitoes? Ans.-Mosquitoes are known to carry
certain diseases, not by mere transfer of the germ as a needle elrust into one
person might carry germs in the blood to a second person into whom the
toedle was also thrust, but by the germ
no In a certain stage taken into the
mosquito's body from one person, then
developed in the mosquito's body to another stage, and then passed out to an-
other person. In brief, the mosquito, in these diseases acts, not as a mere
mechanical conveyor, as fies act in carrying typhoid fever, but as a peculiar
specialized incubator. So delicate a
process is the incubation and so process is the incubation and so special.
ized must the incubator be, that not
only is a mosquito alone capable of it
but there is required a differant kind of
mosquito for each kind of disease germ. The ordinary mosquito cannot carry
malaria or yellow fever; the yellow fever malaria or yellow fever; the yellow feve
mosquito cannot carry malaria; the fever, and so on. Nor can any mosquit convey any of these diseases unless h
(or rather she-only the females do it (or rather she-only the females do it
first secures the germ from a parson who has the disease. In this part of the world (Ontario)
malaria mosquitoes exist; I have myself
seen and caught them here. But the seen and caught them here. But the malarial germ does not flourish her
and rarely occurs, except in the bodie and rarely occurs, except in the bodi
of persons who contracted the disease elsewhere. So the malaria mosquito here seldom has a chance to secure th germ, bite she ever so many people. The ordinary mosquito, like any othe
biting animal, from a lion down to biting animal, from a lion down to
movise, or any other biting insect o even a needle or a pin, may carry othe disease germs from one person to an-
other, purely mechanically other, purely mechanically. Occasiona
cases of blood poisoning, from ordinary cases of blood poisoning, from ordinary
mosquito bites, as well as from rat mosquito bikes, as well as from rat
bites, or the bites of the ordinary non-
poisonous smake, are thus produced. poisonous snake, are thus produced.
Occasionally it may even be that the Occasionally it may even be that the
germs of blood poisoning are on the skin of the parson already, and the bite
merely makes a hole for an merely makes a hole for it to enter by. To get rid of mosquitoes :

1. Get rid of or spoil their breeding places, i. e., protected water, such as swampy spots, old tomato cans halr
full of rain, rain barrels, choked-n eaves troughs, shallow, chaked-up ponds ; etc., etc. This is best done by
draining what can be drained; screening anything like a rain barrel which you
wish to keep; putting fish into orina wish to keep ; putting fish into orias larver; or oiling swamps which canno
be drained with light fuel oil, spraying once a week or once in two weeks, may be needed, one ounce per sixteen
square feet of swamp. The oil can be used on a rain barrel, and if the water be
drawn off carefully below the oil, it may not be objectionable for ordinary pur-
poses. poses.
Drago Dragon ilies are said to kill adult mos
quitoes ; probably birds and bats quill a great many. Mosquitoes are much easier to get rid
of than flies, for flies need dampmess only, while mosquitoes must have actua
colleetions of water in which to breed. Mosquitoes do not breed in long grass or amongst dense foliage unless there are actual collections of water some
where therein, but they will breed in the water collected in the pitcher plants, o even in' a cow-track.

## The ANNOUNCEMENT.

Health staff of the Institute of Public Health are availathe for engagements to
give public-health lectures, for clubs, schools, societies, etc., the only cost be
ing travelling expenses.

## Hope's Quiet Hour.

A Peep at Palestine. Those of you who have read le
week's "Quiet Hour," describing week s Quiet Hour, describing the
Palestine Exhibition in Toronto, may be Holy Land which more facts about t day. The Bible was written yeste familiar with Oriental customs, by me som
of its allusions are puyzling they have been explained by those wh are also familiar with Oriental manners
and habits. In the first place we are amazed
the astounding fact the Che astounding fact that men and women
in Palestine live, dress, and act ven years ago. It seems a is if a miracle
had been wrought, on purpo earnest Bible students the opportunity ple lived in the days in the time when our Lord walked an bly on this earth. It is important for
us all to realize that our hope for this
world and for the great Hereafter is not
depending literal fact. I I once showed to a young
girl the location of the

## These NEW Spring COWIS Were Made With Diamond Dyes





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Come again, Pie Time, and often. For wholesome, digestible "eats" - give us PIE.

At its very best wrapped in a FIVE ROSES crust.
Upsets Pie Prejudice without upecting the Eater's Insides-FIVE ROSES flour Great for Pie Crust - top and bottom. And Puff Paste and Diffecult Thinge. Closograined - melting-even textured Flaly, too, and erimily - crisp yot tonctor. Put into your bake thinge the rare nutlile sweetness of Manitoba wheat lsermele. All soppy with the rich red juice of the cherry or lemon pie-or applo--or heolthy custard-meet, may be, or mines
Put the FIVE ROSES "cruet end" abont 'm
 At Pio TimeUso FIVE Rosen


## Pure, Warm Air vs. "Cooked" Air

STEAM and hot water heating systems, with radiators in every room TEAM and hot water heating systems, with radiators in every room
simply stagnant air over and over again. Such methods are ondemned by people who have regard to health and sanitation.

The Kelsey Warm Air Generator provides for an even circulation of pure, warm air throughout the whole of a building by means of the Kelsey Positive Cap Attachment

This new feature in a warm air heating system is found only in the Kelsey. It insures good venIt safeguards health besides proAnd because of its special form or constructiou that gives se 6 sal squarme of
of radiating surface for 1 square ft. of radiating surface Korley ware
grate sirf the tho
or three times as much airas an oror three times as much air asan or-
dinary furnace and cliculates it
more uniformly more uniformiy. If you are interested in this Pure Air
Heating System write for our booklet "Achievements in Modern Heating and
Ventilation."

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Brockville Winniped

are gathered to trameate avory kuta a
 tive, end labores. atane waition to

 at improvito atorie for the pieserd



 poople, that when John the Baptuter tried io arouse them to tares ot ropentancoce.
 not.-stemption, they aid not danese for
 ouncement ot God's hatreed of ain of tho eertainty of death and juagment.
unheoeded by the cromd of poopleat are interaested only trowd or poophtit who
 $\rightarrow$ rocived without any sign of relolecieg. it if an old tsory, and paoplo aro mot




 in parabies, in orier to win $\AA$ menaring and ix the hidden iesson in their mem.
 dered the meaning of the parable pon But another voice rings through the market - place where we are standing.
Here is the water-carrier, with Here $\begin{aligned} & \text { mottle slung over his shoulder, shouting }\end{aligned}$ loudiy: "Ho, ye thirsty ones, come and drink !" A lew who have money to
pare buy water from him to quench heir thirst, but the crowd pays little
ttention. Now a rich man comes up and performs a deed of charity. He pays the water-carrier for his bottle of water, and then tells him to go out and
give it away to all who are thirsty. give it away to all who are thirsty.
Then the soller changes his cry, and shouts: "Ho, ye thirsty ones, come and drink to-day freely, for nothing, for iothing !" Instantly the market - place
is a scene of wild excitement. Then, is a scene of wild excitement. Then
women and children crowd round th watercarrier, trying to secure a free drink before the supply is exhausted To people who understand fully the pric
and value of water, the King, Who laid down His heavenly riches in order tha all our needs might be supplied, first man thirst, let him coime unto Me , and shall give him shall shall be in him a lasting life." It is cool and into ever and always fresh, far better than the tale, lukewarm water supplied by watercarriers of earth. Isaiah prophesied of that thirsteth, come ye to the waters, nd he that hath no money; come ye buy and eat . . . . without money and without price."In order to supply the must have been paid. He Who ofler living waters to all who come to Him pald a terrible price, indeed, even His When new wine is kept in one of the goat-skin botlles, the bottle must the skin and the wine will- be spilled. Glass bottles, such as we have, are not used by the natives of Palestine, even in this 20th century.-See St. Matt.

While we are thinking of water-carriers let us leave the market-place and walk
with two Apostles along the crowded streets of Jerusalem at the Passovertime. They have been sent on a strange for "'a man bearing a pitcher of water, and follow him to his home. Do you think the quest was a bewildering one, carrying pitchers of water? Far from It. Yesterday Is heard a native of Jerusalem remark that he had never seen a "man" carrying a pitcher of water in
palestine
It is always the "women" Palestine. It is always the ", women" head or the shoulder. Perhaps the man mentioned in the Bible (S. Mark Xiv,:
13) felt that he wias doing ' 'woman's 18) felt that he was doing woman's act he would be remembered for all time. The work which seemed to be humiliating was really the most honored and renowned action of his whole
Let us return to the market-place. Here is a baker's boy with his basket of barley loaves. The loaves are about
four inches in diameter, and an inch or two in thickness-rather larger than an ordinary baking-powder biscuit, and quite hard. This bread was always "broken," never cut. Perhaps the lad who had "five barley loaves," one day when a
great crowd of people were faint with greal
hunger, had joined the crowd to sell his bread, and had nearly disposed of his supply. The loaves were so pitifully small and the need was so tremendously
great. What were they among so many? Does the miracle of feeding the multitude with those hard little barley loaves seem to you impossible? Look round you and see the hellous increase from the small, hard seeds you scattered. You know, by yearly experience, that God can feed millions of hungry people for many months,
using and multiplying the small soeds which are thrown into the ground to die and decay. You do your part-though no farmer can really make one potato
to feed a hungry child-and God works the marvellous miracle of foeding the multitudes. He can do the same in spiritual matters. Give Him your best purposes-and He can and will help others through you. How is it that one of our readers writes: ${ }^{1} 1$ really think well does she speak to my condition"?" Such a message as that comes to me as serve is really stooping to make use of
vice many years ago. Thank you, very,
very much, dear ""Quaker Dame," for wanting me "to know it," as you say. Will "Norham" please be kind enough sond me her address? I
particular reason for asking this, particular reason for asking this. You see I have suddenly dropped you
in Canada again. Our magic carpet was peremptorily recalled from Jerusalem by my conviction that unless this "quiet Hour". is cut short by" me, it will in"Advocate" office.
Perhaps we may take another trip
he fascinating orient, another ant, another day.

## The Ingle Nook.

TRules for correespondence in this and other De partim. (2) Always send name and address with Eeal name will not be published. (3) When en -
closing a letter to be forwarded to nyyone, place it in stamped enuelope ready to be sent once (4)
illow one month in this department for answer
to questions to appear.].

The Child and Its Educa tion.
Dear liglie Nook Friends,-Have you child-culture that has been going the ounds of the papers lately? If here it is. Of course, its canclusione may be taken semi-humorously, as they were intended to be ; the point is that regard to a very important quubject, - in development of the children to-day, who are to

THE MODERN CHILD
Born scientifically
Studied terrifically
Studied terrifically,
Clothed very caretully
Dieted sparafully
Aired systematically,
Bathed most emphatically,
Played with quite drearily
Sweet infantality,
Santa Claus banished,
Mother Goose vanished,
Where are the babies.
The roal human babies,
The olden time knew?
Harnessed scholastically,
Drilled superdrastically,
Classified rigidly,
Reasoned with frigidly,
Loved analytically,
Listened to critically,
Dosed with the "ologies,"
Rushed through the colleges
Crammed pedagogically,
Where is the childhond
Where is the childhond
The fresh, happy childhood
The fresh, happy, childhood
The olden time knew?
Children successively,
Posing eternally,
Wearied infernally,
Planned for initially
will they artistically,
Never cry " "Quit" to it?
Will not analysis
Stop from paralysis,
nds with
Brings back from chilldhood,
The bright, careless childhoo
The olden -Vancouver Province Is the child of to-day over-trained and lead one to infer? If not, are Canadain children on the whole under-trained and under-educated? What is the happy
mean? In what should a child's ediur mean? ondion consist? Where is the most important part of its education obtained? -These are the questions suggested, and tempt to touch upon. trusting that in so far as I may fall short in my premises and conclusions, someone else may come forward to fill up the gap.
The main consideration is that we think to purpose on the ouestion,-one of the to purpose on the question,--one of the
most important, you will agree, that can be brought under discussion.
In the first place that, generally spaaking, the Canadian

## Buy the Windmill that Cannot Rot or Blow Over <br>   "BAKER" GALVANIZED At pede no oint tor readit int crack and viemininototot ono bed    The HELLER-ALLER COMPANY, Windsor, Ont.

THE RESULT OF PAST EXPERIENCE
$\mathbf{W}^{\text {ITH the many thousands of generators in daily use, develops the fact }}$ that manufacturers of Acetylene apparatus MUST DEAL WITH
that manufacturers of Acetylene apparatus MUST DEAL WITH CONSTRUCTION, if theyoexpect to remain in business and to be a factor in its highest development.


Ths iliustrates the ofd time way of installing an Aceftylene Generator


The above illustrates the manner of installing The Patented Jenne Pit Acetylene Generator. It is is in the ground,
like a cistern away rom the buildins, where it is
out of the way and abolut

Messrs. Jenne \& VanDyke, Grimsby, Ont. Beamsville, Ont., April 30th, 1913 Gentemen, $I$ installed a one-hundred-pound JENNE in our home Aerally two years
ago and am well peased with it. Being a large carbide capacity machine, it requires very little
attention about thre ties





Conclusion-Buy a Jenne Pit Generator by all means, for it produces the VENIENT, and SIMPLE, and COSTS LESS than any other generator of equal capacity or lighting system on earth.
We would ask you to read the article headed "Acetylene Lighting" in the
Manufactured in Canada solely by
JENNE \& VANDYKE, Grimsby, Ont.
ahild of to-day, and particularly the rural child, is either over-trained over-educated. The faus exists, course, in is isolated chases, and, it ever
recognized-hard though it is to recognize one's
guarded againot.
"Why," says someone, "How can it bo possible to over-train a child ?"-
Perhaps a few concrete instances, each Perhaps a lew concrete instances, each
taken from real lite, may illustrate taken from real mass of arg mient. A very charming woman, the mother of a beautiful little girl cf three. a very
rosebuil and apple-blosson । little damsel, rosebud and apple-blosson i little damsel,
visited this city some $t$ me agu, at a home where the childrer are accustomed to all the joys of free childr ood. There is a big sand-heap in the back yard,
ind thare are little sli.veis and hoes, old tin cans and tiny $p$ ilis lor carrying water, also a fine co lectiin of stomes of all kinds all ready for building houses and bridges, fencing farms and making
railway tracks, thp sel y equipment, in railway tracks,-the sel $y$ equipment, in
short, needful $\rho$, h healthy normal
notildren with short, neadral
children with a cu plus of vitality, a 'body to be develc ....1, and a mind to be atimulated by ive...uation and balanced by the spirit of i., all such play. Would you be eve it ?-Notwithstand-
the glories of $t$ 's back yard, little Miss Rosebud was kept on her mother's knee almost every hour of the three-days
visit. "I nurse her nearly all the visit., said the too solicitous parent "She does get her dresses so dirty, and Just once did the little prisoner wholbour in which she got a smudge on her nose, and had sand pourred on top of her head and down her back and over her white nainsook dress. Genuinely
distressed, the mother, with crimsoning lace, snatched her up. "Oh dearie," she said, "you were never so dirty beFore !" and thereupon followed a vigor-
ous process of washing, brushing and ous process of washing, brushing and
changing of apparel, that left Rosebud changing of apparel, that left Rosebud
tearful, though otherwise as pink and white and dainty as before. Now the sand was perfectly clean sand, and there
was no reason whatever for all that towas no reason whatever for all that to-
do Rosebud was none the better' for Another instance which comes up on the moment is that of an adoring mother and an adored son-an only
child-of eight or ton years of age. "Only" children are usually an unadvisable experiment, and this one presented no variation from the usual series of complexities. The mother worshippes.
at his shrine, -and she had theories. One of her theorries was that, on no account, should Gerald be forced. Moral and religious suasion-wholly right and excellent as a part-system-were to be
the levers by which he was to be elevated into something better than ever, was. "Now Gerald, God sees you," was the argument ever and always brought to bear upon the little do
linquent,-a great truth truly, and one to be broached with all reverence, but the fact remains that because of
tits endless reiteration, it became as its endless reiteration, it became as
tinkling brass to the really mischievous tinkling brass to the really miso ine ear and out at the other, and that was the Now, I don't believe in punishing
children often, but I do think that in extremz cases nothing else will answer. A boy is the better for understanding that he must do as he is told. Nothing except that wild. Is he refuses, his
put upon a child reason should be appealed to. If that does not work, then a bit or compulsion
will do no harm. If it is not exercised will do no harm. If it is not exercised but it will be along utterly wrong and perverted lines. More of this Later. Gerald was the centre of the universe,
and, worse still, was let know that he and, worse stin, wash in before visit-
was. He was brought ors, and talked to and about, in the hope of drawing out his ideas. He was
doferred to. A diary was kept of his deferred to. A diary was kept quite sayings
common to
hear him say, ", "Mamma, read my diary to the ladies." As a result of all this over-attention, Gerald, of course, cona self-conscious, a conceited, self-centred, seli-conscious,
selfish, often quite disagreeable child,
quat peevish if everything he wanted was not
forthicomoning on the moment, afraid of Lorthcoming on the moment, "arraid
other boys, who were chiefly "bad boys"
to him, likely to come flying to his every ever-so-tiny clash with his play
mates. There was little that natural and child-like about him. He was continually "showing off," and, of
course, was not a favorite among other course, was not a favorite among other
children. By her over-attention indiscreet over-worship his mother had in short, succeeded only in making him a young prig, unhappy because never
able to play spontaneously with able to play spontaneously with little
companions, never at ease save when companions, never at ease sava when
clevated on a pedestal in the drawingOf course, the mother thought him perfect. Had she known 1t, the little
bright-eved dirty bright-eyed, dirty-faced Italian living be-
yond in the alley, was really more yond in the alley, was really more
lovable. In another case a mother of six had
somewhat the same idea about never forcing children. She was atraid of breaking their will, she said. Now, the
will is one of the greatest possessions we will is one of the greatest possessions we
humans have, and assuredly it should not be "broken:" But it is one
thing to break a will and another to thing to break a will and another to
wisely direct it. So great was this wisely direct it. So great was this
woman's fear of fracture that not even
direction was direction was resorted to. As a result pandemonium reigned in that house of
six children. They smashed everything six children. They smashed everything breakable, they galloped up and down
the upholstered couches with muddy boots, they made railways of the chairs and left them pock-marked with dents
of shoe-nails. of shoe-nails. The list of their destruc--
tiveness was legion. It may be added that these children are growing up now into fairly sensible young people. The give-and-take of so large a family has had its effect, and the parentage was
good on both sides. But the mother's good on both sides. But the mother's the growing-up process.
As I said before, however, these are
isolated cases. I do not think that Isolated cases. I do not think that
there is danger of vary many Canadian child is danger being of vary many Canadian
by too much theory, so we may proceed to the next point.
Do many of them suffer from too little From blindness and stupidity
on the part of teachers and parents? From utter carelessmese in regard to
child-culture? From general under-chrid-culture? From genera

This morning (it is the 20th of May) "We do not know yet whether the fruittrees have been harmed or not by the frost," it said, "the apple blossoms are Down here in this comparatively warm
corner of Ontario they have come and gone, and we have felt the little bit of heart-sinking that always comes with
the first touch of brown on the pink the first touch of brown in the woods
and white petals, but in
there are still wonderful things to be seen. the dear old north woods thers were few choke-cherry tree, with greenish white flowers of spicy odor-that was all-and away beyond Ottawa
tasselled Juneberry trees, beautiful be tasselled Juneberry trees, beautiful be
yond dream, but down here, wherever a yond dream, but down here, wherever a
bit of woodland has been
left, the springtime turns to fairyland with the
bursting forth of the wild crab-apple bursting forth of the wild crab-apple
and hawthorn blossoms. We were out to see it all on telescope
day, four of us armed with a through which to see the birds, but the
birds would not sit still, so that part of birds would not sit shine. Next time we'll
the trip was a failure. the trip was a
take field-glasses. But what matters missing a bird or two when you can wade through green glooms, look down
from an eminence upon tree tops all soft from an eminence upon the tender green of spring, and burst through a thickpet every five minutes upon a bank of hawthorn turted
with white, or upon a wild apple tree with white, or upon a wild apple tree
a mist of white interspersed with tight a mist of white interspersed wind
little pink buds? There were flowers beneath, too, all over the ground, white
trilliums here, bishop's cap there, blue trilliums here, bishop's cap there, blue
violets beyond, with Solomon's seal and twisted stalk for variety. We found
queer little red flower too, in quantity, queer little red
quite new to me, but familiar to the others under the name of "goum."
And the birds? - Why their songs were
"teacher bird" on this all about, a "teacher bird" on this
tree answering to a lar-ofl call from tree answering to a far-off call from thee answerrngler trilling his heart out

## Get a ${ }^{66}$ Monaroh ${ }^{9}$ It Paya <br>    <br> 

ganadian engines, limited, dunnville, ont. THE FROST \& Sol Solluna Aseato for Rateren Canain, Sole Selling Agente for Rastern Cannda'
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## June-The Gate Month <br> $A^{R E}$ you planning to put up some new gates on your farm this summer? by the Ontario Agriculltural College. the Experimental Farm at Ottawa, the Macconald College Farm. and by the leading stockmen of Canada. These makes. This means only one thing. namely. <br> 



Electric Steel Wheels with Wide-grooved Tires Are the ideal wheel for farm and road. Built to fit any axle or
skein, of any height, any width of tire and skein, of any height, any width of tire and capacity.
electric wheel co., 8 Elm St., Quincy, ill., U. S. A

in a besch-top, and a meadow-lark
lamenting and a bobolink gurgling over with more than he could say in the flat
beyond. If I Ahould were such a poet as Browning I
want to write a poem about wild-crab-apples and bobolinks and songsparrows, a poem so full of the-spring-
time and its promise that it would thrill to the Canadian soul and put now hope into hopeless hearts, and awaken the love of beauty in indifferent
ones.
And why Browning ? Because I have been thinking of his "Oh to be in Eng-
land," written when. he was in Italy, Fritten when he was in Italy,
and reflecting that $I$ have not yet come upon anything quite equal to it in Canadian poets have, it is true, written with feeling about nature, but do you know of anything on our Canadian May days quite equal, for pure description,
to this about the English April?
"Oh, to be in England
Now that April's there,
And whoever wakes in England
Sees, some morning, unaware,
That the lowest bughs
Round the elmetree bole are in tiny leaf,
While the chaffinch sings on the orchard In England-
"And after April, when May follows,
And the whitethroat builds, and all the
swallows-
Hark ! when my
blossomed pear-tree in
Leans to the field
clover
Blossoms and dewdrops-at the bent
That's spray's edge-
song twice over.
Lest you should think he never could
The first fine careless rapture 1
And though the fields look rough with
All will be gay when the noontide wakes
anew
The buttercups, the little children's

- Far $\begin{aligned} & \text { dower, } \\ & \text { brighter } \\ & \text { flower !', than this gaudy melon-- }\end{aligned}$

I wonder, do we appreclats the country enough? Do we see enough, hear enough, smell enough, feel enough to
really appreciate Its poetry and such poetry as this?

Last night we heard a lecture on
Browring, given by a very brillignt Browring, given by a very brilliant
lecturer who is a most fervent admirer of the great English-Itelian poet.
Browning, this true prophet, though of modern times. Why, he asks, should we take it for granted that the spirit of prophecy
ceased with the Old Testament epoch as the And so he points to Browning prophet and revealer of truth of these last days,-a conclusion of you who followed or took part in our Literary Society study of "Rabbi Ben Ezra" three or four years ago.
And now I know you'll be wanting to And now I know you'll be wanting to
study Andrea Del Sarto, and Fra Lippo Lippi, and Saul, and Bishop Blougram's Apology, and An Epistle, and, mayhap,

Write us a few letters, will you not?
-and tell us how you have been and tell us how you have been enjoy-
ing thes? delightful days and the garden-

## COMPLEXION QUERY.

Dear Junia,-I am a constant reader
of your Nook, and in its columns have of your Nook, and in its columns have
found much valuable information. I Tound the remedy for the removing of
freckles a great help, and, as a rather dark complexion, I was wonder-
ing it you could let me know, through your valuable paper, how salts can be used as a face wash in place of powder,
and be harmless to the skin. I have seen it used with other skin. I have the form of a liquid, but cannot find
out how it is made. Kindly give
quantities. Thanking you in quantities. Thanking you in advance
or your kindness, and wishing you every ossible success.
Wentworth Co ont

I can find no specific directions for
making salts face wash thating aselts face wash, but have heard soft water will "take the made with Better experiment to ascertain thesire. quantities.

## WEDDING CELEBRATIONS.

Dear Junia,-This is the first time tion, but I always enjoy reading informaenquiries. Would you be reading others publish the different wedding celo brations? I wish particularly to colo what the 20 th year celebration is, but would be gratefull for the rest if you York Cơ., Ont.
The various wedding anniversintion
as follows

First year-Paper.
Second year-Cotton.
Third y yar-Leathen.
Fifth year-Wooden.
Seventh year-Woollen.
Tenth year-Tin.
Twelfth year-silik and linen.
Fifteenth year-Crystal.
Twenty-fifth year-China or floral
Thirtieth year-Pearl.
Thirty-fitth year-Coral.
Fortieth year-Ruby
ortiath year-Ruby.
Fittieth year-Golden.
Seventy-fifth year-Diamond.
COMPLEXION QUERIES.
Dear Junia,-would you please anewer
the following questions o What causes pimples? Give a good Is Peroxide injurious to it plexion? Some people say it make the skin a yellow color. sixteen years of age to for a girl of What colors are suitable for How can a person get rid of mothe What is a red resipe to Kent Co., Ont. Pimples may be caused by some domedical attention, or they requiring eaused by clogging of the mares for bath-tub. This question has been to the on to the Department of Public Health. Watch for an answer there.
is sometimes used to remove tan. is ing, used too frequently to remove tan. If dry the skin.
variety of ways, choosing the hair in a suited of ways. choosing the style best the headd, three coils at the back of or head, one coil with a ribbon bow, you watch the heads of the back. If our fashion department you will be able oo keep abreast of the times in the matter of hair-dressing.
wear cream, dull tan, olive grean can shades of brown, maize color, navy that people look well in fawn. A few darls Benzine or gasoline will kill applied freely. Be sure to keep doars and windows open when putting it on and until it is completely evaporated
afterwards, and see that
and ighted lamp is within no fire or peopls have been seriously burned, and nege even lost their lives because of neglecting this simple precaution. Gasoflammable. Did you notice 'Twentieth Century Housokeeper's's letter, published recently, in which she said that the use
of a vacuum cleaner had from her house? . moths For removing tan use peroxide, apply-
ing a little warnt boric acid and water with a little glycerine added if the skin
shc ald become sore she ald become sore. A milder remedy
is prepared as follows : - Mix buttermile with grated horse-radish and corn meal to make a paste. Put between layers long as possible at night, talking as keep it away from the taking ca

RESTORING DRESS.
 I have a red velvet dress which has
 its natural color. Thanking you in ad-
$\underset{\text { Vanark }}{ }$ Vo., ont.
Put your dress in a crock, in the
shade out of doors, and cover with gasoline. Cover closely and leave to soak for an hour or so, then rub out a
little, not too briskly, for fear of little, not the gasoline by the priction.
igniting the
Rinse the dreas in fresh gasoline, and hang it on the line to dry. Read care fully the directions to "M. M." in this department of to-day's issue in regard
to using gasoline. I do not want to
be responsible for an accident. If any of the fluid is left over and you wish to keep it, put it in a tightly corked
bottle, and keep in a cool place, preferably an outdoor shed where there can be no danger of fire.
The gesoline will clean the velvet. If,
however, the dress is faded, you had better consult a professional cleaner and re-dyed.

## SEASONABLIE RECIPES.

Veal Collops:-Cut 1 lb . veal into pieces
the size of an oyster ; season with teaspoon pepper, $\frac{1}{1}$ teaspoon salt and a
daeh of mace. Dip in egg, then into daeh of mace. Dip in egg, then into
cracker crumbs, and fry in hot butter. Spring Soup:-Put in a saucepan 2 1 pint water. Add one onion, 1 cup canned peas or green peas, a small bunch parsley, and 2 tablespoons butter.
and simmer until tender. Season with and simmer until tender. Season with
salt and pepper. When done drain off the vegetables and add two-thirds of the liquor to 1 quart of soup stock or sweet milk. Beat up the yolks of 3 aggs with the other hird of the liquor, the vegetables. A very nourishiog
Dutch Fried Potatoos :-Fry 1 tea-
apor spoon chopped onion in pork, fat o
butter. Add 2 cups sliced raw potatoes salt and papper to taste, and fry a light brown. Beat an egg light, pour over
the potatoes, and take up at once in a the potato
hot dish.
Omelet :-Beat 5 gggs well separately. saltspoon white pepper, 1 teaspoon flour, 1 tablespoon chopped parsley. Fold in the whites, then turn all on a
hot pan greased with 1 large teaspoon hot pan greased with 1 large teaspoon
butter.
Cook until set, fold over and serve on a hot dist gernished with a lem leaves of parsley.
Marshmallow Cake :-Byat 2 cups sifted
sugar and one of butter until creamy sugar and one or butter until creamy Add 3 well-beaten eggs, 1 cup milk, ${ }^{4}$ cups silted fiour, $1 \ddagger$ teaspoons soda, and strained juice of 2 lemons. Bake na a moderate oven in 3 tins. Mix to-
gether 1 rounding tablespoon corn starch, 1 tablespoon butter, 2 tablespoons flour and $\ddagger$ cup milk. Heat 1 four mix and gradually add to it the smooth and cook 5 minutes, stirring all Remove from the stove, cool
and add 1 m . marshmallows (a few at time) and a teaspoonful of vanilla. Us this to put the layers together
Decorate the top with white frosting or Decorate the top with white frostion
whipped cream and marshmallows. Crumb Pie:-Line a pie-plate with
pastry, and fill with a mixture made as follows : Moisten 1 cup bread crumbs with a little warm water, then add 3
tablespoons brown sugar, tablespoon butter, $\frac{1}{\text { a }}$ cup cold water, 1 tablespoon Covar the top with strips of pastry laid on lattice fashion, and bake. Potato Cake:-Cream together 2 cups
sugar and two-thirds cup butter. Add sugar and two-thra
beaten yolks of 4 eggs, 2 cups flour mixed with 2 teaspoons baking powder,
1 teaspoon powdered cinnamon, 11 tea-spoon powdered cloves and $\frac{1}{2}$ teaspoon
grated nutmeg, and $\frac{1}{\frac{1}{2} \text { cup sweet milk }}$ then add 1 cupful hot mashed potatoes 1 cupful chopped English walnuts and the stifly beaten whites of 2 eggs. The
potatoes must be very hot when mixed with the chocolate. Bake in a loaf,
and ice with white icing flavored with

SEE FOR AN Bag. USE FOR AN OLD FLOUR SIFTER. less as a sifter, sifter has become use-
Place tor boiling eggs. Place the sifter, with the eggs in it in a
kettle kettle of water: when doge they may
be removed all at TO REMOVE FRUIT AND COFFEE Rub the spots with glycerine. Le luke-warm water. Flower vases. ver phen tower vases from falling a small muslin bag filled with shot put To Clean threads from carpet To clean threads from a corpet at sswing, dampen a whisk broom and MENDING LINGERIE WAISTS. keep them for patching lingerie waists and underclothing. There will be no pucker after washing, as when unshrunk en material is used.

LaUndering pongee.
Experiment with Pongee or Shantung
silk. Some pieces press silk, Soriment with Pongee or shantung
Somee piecs press out beautifully
when perfectly dry, others must bi when perfectly dry, others must be
ironed before they have become quite dry, and while they are still evenly re-covering parasol If your parasol gives out, try re-cov-
ering it yourself.
Rip out one section and use it for a pattern, laying it so selvage ter edge will be flatly on the selvage of the goods, which will thus
form the outer border of the cover. the rose bushes. Stir the soil frequently about the rose
bushes, and mulch with lawn clippling Spray with tobacco water once or twice dew spray the affected parts. For mill and dust with flowers of sulphur.

Recipe for Corned Beef. OOD CORNED BEEF CAN BE PRE-
PARED AT HOME BY THIS PARED AT HOME BY THIS

The pieces commonly used for corning risket plate, rump, cross ribs, and cuts of meat. The loin, ribs, and other lancy cuts are more often used fresh, and since thare is more or less waste
of nutrients in corning, this is isll The pieces for corning should be cut into convenient-sized joints, say, five or six inches square. It should be the aim to cut them all about the same even layer in the barrel.
Meat from fat animals makes choicer corned beef than that from poor ani-
mals. When the meat is thoroubl mals. When the meat is thoroughly possible, as any decay in the meat is likely to spoil the brine during the stances should the meat be brined while Weigh out the meat and allow eight pounds of salt to each 100 pounds :
sprinkle a layer of salt one-quarter of sprinkle a layer of salt one-quarter of
an inch in depth over the bottom of the barrel; pack in as closely as pos-
sible the cuts of meat, making a layer five or six inches in thickness ; then
put on a layer of salt, following that with another layer of meat; repeat packed in the barrel, care being used to reserve salt conough for a good layer
over the top. After the package has over the top. Alter the package has
stoud over night, add for every 100 pounds of meat. four pounds of sugar, two ounces of baking soda, and four
ounces of saltpeter dissolved in a gallon ounces of saltpeter dissolved in a gallon
of tepid water. Three gallons more water should be sufficient to cover this quantity. In case more or less than
100 pounds of meat is to be corned, 100 pounds of meat is to be corned,
make the brine in the proportion given, A loose board cover, weighted down With a heavy stone or piece of iron,
should be put on the meat to keep all of it under the brine. In case any
should project, rust would start and the should project, rust would start and the
brine would spoil in a short time.
It is not necessary to boil the brine

## DOMINION EXHIBITION

Brandon, Manitoba July 15th to 25th, 1913 $\mathbf{\$ 5 0 , 0 0 0}$ Prize List $\quad \$ 20,000$ in Speed Events reduced rates on all railroads FARMERS ! MANUFAGTURERS! We have the most liberal pre mum ort sorera of freignad. on Rive stock and poultry without restric
tion ass to where elise oxthibis or ion as to where else extibits ant

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tock right to
Exhibition
Barss. An premlum won at Brandon
 Entriea close July list. Your opportunity is here. Free space forpouruise exthibita and special building or or manufacured
eutomobiles and mooror tuckes See that you have the space. Fair and courrious treatmen

Entries close July 10 t.

## EVERYBODY:


 SOME OF THE Grand froworts diplay, plewing "the Nool gatele


 travellers' day, monday, july aite
the exhibition that dors candid credit
P. PAYNE, Pres.
W. I. SMALC, Sec, and Manager

## The Anthony Wire Fence



ANTHONY WIRE FENCE is the cheapeat on the market if you value quality and workmanship.
ANTHONY WIRE FENCE is made from al No. 9 hard steel wire thoroughly galvanized. ANTHONY WIRE FENCE has the stay wires tied to the line wires with the trong: est, neatest and most compact lock on any wire fence made
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The "Sunshine" has a straight-sided semi-steel firepot, extra heavily ribbed and made in two sections. The two sections allow for contraction and expansion-which prevents cracking. The heavy ribs and semi-steel give extra strength and added radiating surface. Ashes cannot adhere to the straight sides which assures an all-over clear fire. This means the greatest heat from the fuel consumed.

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or any other line of Stock or Poultry Food. Write
GUNNS LIMITED. West Toronto

## WHAT BOW PARK FARM SAY

Bow Park Farm say in a letter to us: "We estimate that every 100 lbs . of tankage cause an increase of 75 lbs . of pork which could not be obtained when using other feeding stuffs alone.

## HARAB

Digestive Tankage
is a remarkable flesh-producer. Brings hogs to maturity rapidly Makes money quickly for hog-raisers. Write for Tankage Booklet It tells all about it, including tables for feeding
THE HARRIS ABATTOIR CO., LIMITED, Toronto, Ontario
areapt in warm weather. If the maet
has been corrod during the winter and must be kept into the summer season,
it would be well to watch the brine closely during the spring, as it is more likely to spoil at that time than at an other season. If the brine appears to
be ropy or does not drip freely from the finger when immersed and lifted, it hould be turned off and new brine added, after carefully washing the meat. The sugar or molasses in the brine has
a tendency to ferment, and, unless the a tendency to ferment, and, unless the brine is kept in a cool place, there is
sometimes trouble from this source. The meat should be kept in the brine twentysight to forty days to secure thorough corning.-Andrew Boss, Agriculturist

News of the Week.

> A bulk freighter, the
ruthers," claimed to be the largest of the kind ever constructed in the British May 22nd.

A Church Unity League, looking
loser union with and recognition closer union with and recognttion of
other Christian bodies in all Christian work, was organized last weelk at the Church of the Redeemer (Anglican), Toonto.
As an outcome of the joint classes of
Presbyterians, Anglicans, Methodists, and Congregationalists, held in Montreal last fall, a new Union College for theological work is to be ere
million dollars.

BRITISH AND FOREIGN
The south shore of Connemara, Ireland is being swept by famine fever

Socialists and Radicals have scored victory in the recent Danish elections.

Governor Johnson, of California, in direct opposition to the wish of Presi-
dent wilson and the authorities of all other States, has signed the Alien Land
Bill, directed against the Jopeneoa

Princess Victoria Louise, only daughter Ernest August of Cumberland, were married at Berlin on May 24th.

Dr. Hurd, a member of the Paris faculty, claims to have discovered a
cure, which he calls "loycine," for the cure, which he calls loycine, for the
cure of tuberculosis. It will be at once

British Cabinet Ministers have been so harrassed by suffragettes that they are refusing to attend public meetings unless
freedom from molestation is guaranteed.

The sum of $£ 7,416,680$ was offered by
subscribers to the Chinese subscribers to the Chinese loan in London last week. The loan is issued for
a term of 47 years, redeemable with a term of 47 years, redeemable with
annual drawings commencing on the $\begin{aligned} & \text { eleventh year. } \\ & \text { trust implicitly }\end{aligned}$ The investors appear to
the
Chinese reputation -or honesty. notwithstanding the present

## Women's Institutes.

 SUMMER SERIES of MEETINGS. Arrangements have been complsted tosend lecturers to 750 meetings between the latter part of May and early July. engaged, and will cover a great variety of subjects of interest to the home-malk-
ers of the province. Doctors, nurse dis of the province. Doctors, nurses,
domestic science graduates, dairy specialists, instructors in sewing, and success-
ful practical women who have had no institutional training, but are well
qualified through years of experignce qualitied through years
will act as lecturers.
""The man who runs that store has got
the right idea, all right." he right idea, all right."
"How so ?". "He advertis
instruments."

TheBeaverCircle

## OUR JUNIOR BEAVERS

(For all pupils from the First Book to

Little Boy's Lesson. By Laura E. Richards. See the little hird's nest
In the apple-tree,
Hair and straw and leaves together, Woven close 'gainst wind and weather Pretty as can be. ittle boy, and could you make it ?

See the tiny ant-hill
Busy, busy, all day lang,
Close beside the way
Here the ants, so small and strong,
Little boy, and could you make it Na? Then look you do not break it See the lovely flower,
Peeping out sweet and fair
Peeping out through leaves; and grass
Giving joy to all who pass. riving joy to all who pa
By its beauty rare. Little boy, and could you make it?
No ? Then look you do not break

Junior Beavers' Letter Box
Dear Puck and Beavers,-This is my first letter to the Beavers' Circle. my ive in a wood beside a black fox They are very cute when they come out to play in the spring. They look something like a Maltese kitten with a My grandfather was the first man who My grandiather was foxes on Prince Edward Island, but he lives now in N. B. about
a mile away from here, and we tend his foxes.
If the Beavers would like to know any more about foxes I may write Little Shemozue, NSML G. OULTON The Beavers would be glad to hear aore about the foxee. Russel.

Dear Puck and Beavers,-As this is my first letter to your olearming club, it I fike roading your letters very much. My father takes ""The Farmer's Advocate", and likes it.
We have two and a hale miles to we cannot go at all. My youngest goes, with me. My oldest sister, Phronzetta, who is 16 years eld, goes
to High School in Flesterton I have two brothers. Everett, 4 years old, and David 1 year and eight I would like some of the write to me.
I am in a class at sohool with six I guess I will stop now. Lovingly,
Vandeleur, Vandeleur Ont LULU CARSON (Jr. II. Class.)
Dear Puck and Beavers, -This is my
rst letter to the have one little niece, her name is Clarice. I live on a farm of one hundred acres. I go to school every day. I live one mile and a half from school.
My father raises cattle, horses, cows and pigs. For pets I have a large white cat and a pigeon. My pigeon is very
fond of music. She dances to it. My lond of music. She dances to it. My bye for this time. $\begin{gathered}\text { FLORENCE GLASGOW. }\end{gathered}$ Glencoe. Ont. Florence GlasGow.

Das Puck and Beavers.-This is the as I did not see the first in you, and thought I would write again. In int I reading the letters very much. I go to
school. and like going very well; I have to go about a mile and a half. Well as my lettor is getting rather long
(1)

STRONGLY BUILT STEEL SULKY RAKE

An Improved, strongily-bullt rake, up-to-dare in every thi. witams. The 8 -ft. width has 26 spring steel teeth. The 10-ft widuh has 32. Where the teeth are attached angle steel is used. The sharts are so constructed enird.


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## STUMP EXTRAGTOI

If you are troubled with stumpe, give trial. It Samson Stump Extractor Europe for the past three yeare with the grieatest success. By itt assistance,
two men will do the work of threemen and a horse. It can also be ueed for felling trees.

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We are open to buy car lots of choice timothy HAY and olean bright STRAW. Send prices and particulars to: CHISHOLM MILLING CO. LTD. Toronto.
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torg. Ont.


number of years, and uikes it very much. I Ilike to read Puck and Beav-
er's leters. My pets are a dog and a colt. The dog will run after us and play, but will not bite. We call him olite. My lituif colt will bito when any person goes into the stable . He is
bout a yoar old, and we call him Prince.
Our sehool is an old one, but we will ave n new school for next year. The
old school is a very small one. I llke going to school very much. I live about one mile and a balf from school, but go every day. 1 have lour sistera
but no brothere.
 feader: anna mary mcgaghram.
 Dear Beavers.-This is my second at cempt to become known. to you. ${ }^{\text {A }}$
you have such a busy name, I think would like to become one of your num-

ber. I would also like to become | atquainted with Puck. I enjoy reading |
| :--- |
| the letters $\begin{array}{l}\text { trom your circle every week. }\end{array}$ | It heve three brothers. but no sisters. Two of the boys and $I$ go to Maple

Grove school. $I_{\text {was }}$ was nine years April Grove school. I was nine Years Apri
4 th, $n$ nd my oldeat brother, Nolloon, wa

CLIP YOUR HORSE IN
THIRTY MINUTES


B. \& S. II. Thompson \& Co., Lid. Vhen Writing, IMention Wdroceto

SATISFACTION OR YOUR MONEY BACK

## 1 <br> Get the Separator NOW which will make your dairy more profitable this season. Make a FREE trial of the <br> PREMIER <br> It is the <br> SEPARATOP YOH WAMT <br> Write us for further particulars.

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WINNIPEG, MAN.

## Over <br> Dispersion Sale so Heend AYRSHIRES

To be held Wednesday, June 4th, 1913 Howick, P. Oue 12 noon at Terrace Bank Farm,



 the bast hedd in Socland. They are all entereded int thereset for the Record of Perromampe, and the amount of milk given so far will appear in the


JOHN D. DUNCAN, Howick, P. Que.

## EERTILE <br> ARMS <br> REE

## CANADIAN NORTHERN RAILWAY



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A SETTLER'S SUCGESS
Dear strecile Board of Trade.







BUT A CONCRE'TE MIXXER


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Work in the construction of
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Wo murate heteat Toronto prices, tull velfht
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Ontertor 178 Spadina Ave., TORONTO, ONT. Farm Help

Weekly parties of young men
now arriving. Apply: BOYS' FARMER LEAGUE
Onterto
Drawer 126
Wimona, Opted
calt her Valentine, and cared for her
every night. I would be glad to every night. I would be glad to
hear trom any little girls of my own
age. Wishing the Beavers every succoss. age. Wishing the Beavers overy success.

RUTH ARMSTRONG. | Bowmanville, Ont. |
| :--- |
| R. M. |
| D |

Age 9.
-
Dear Puck and Beavers.-This is my frast letter to the Deaver circle, and would like to join. As soon as "The house I read the Beaver Circle, I have two brothers and one sister, I like Ming to school 1 am in the jumior thind book. I have nearly two miles to wall to scho
For pets I have a colt, its name
is Maud, and a cat named Jack is Maud, and a cat named Jack, AMo
father has taken "The Farmer's Advo cate" as long as I can remember.
I guese I will close with some riddles.
"How many apples does it take to make a pear? (pair.)
"Why is a bedbug like a railroad


Dear Puck and Beavers.-This is the first time I have written to you. My cate" for as long as I can remember. I read the lettors and like them very much. I live on a farm of one hundred
acres, situated two miles from Hawkes ville, and three miles from Linwood We have a good dog, his name is Bob.
I have six sisters and five brothers. have six sisters and five brothers.
Hawkesville, Ont. VERA HAID.
(Age 10, Jr. III.)

Dear Puck and Beavers.-This is my arst letter to the Beaver Circle. I live
on a farm. I have three brothers and one sister.: I am then years of age, and am in the Junior third. We have a fine
large school, and I have to take sewing lessons once a week. We have two horses and two cows and some chickens, and a little pup called Scottio. As my
letter is getting long I guess I will
 (Age 10, Jr. III.)

Dear Puck and Beavers.-My father
has taken '"The Farmer's Advocate', for has taken "The Farmer's Advocate" for a number of years and would not be
without it. I have reaud the Beavers letters every week and like them. This is the first letter I have written to your circle, and would like to join. I school. I heve three pet cats. Their names are Snowball, Muggins and Tiga. As my letter is getting long I will
close, wishing the Beaver Cirdie succese lose, wishing the Beaver Cirdie success.
VIOLET MTNIELLLY.

Wyoming, Ont. $\qquad$
Das Beaver Circle.-I have not written for a long time, but will write now. ittle birds. There every day to the and a bluejay. They come and sit on throw it out to I have a cat and a dog. My cat went
away, but came back again away, but came back again. $I$ am try-
ing for the fourth book at midsummer. hope I get through. With best wishes Tyrone, ont. MARJORIE OKE, MARJORIE OKE.
(Age 9, Book III.)

Dear Puck and Beavers.-I am sending you another engine this time. We have Rover. He has killed minks and coons nd other animals. He will also draw hens in a wagon. He also drives the
of mischief. Hoping to this in print. Clarence simpson Vanneck, Ont. Clarence simpson. Your drawing was very good, Clarence. you? are a great "machine" boy, aren't

Dear Puck and Beavers.-My father akes "The Farmer's Advocate," and I
hought I would write a letter thought I would write a letter.
I have a dear little sister. she is nine
months old. I am in the secol
at home. I have three cats, they are Daphne Allen. the drawing b Caledon East. mary L. Cranston. Your drawings (enclosed) are very
nice, Mary.

Dear Puck and Beavers.-This is m lather has taken "The Farmer's Advo cate" three-years, and I like reading y every day, but I was sick after New Years. I have three brothers and no isters. My father's farm has two hundred acres in it, and we keep twenty-on Strathroy, Ont. NONA WILSON. (Age 9, Class - II.)
$\qquad$
Dear Puck and Beavers.-As my last gain has not appeared. I will write losey. My a pot cat. its name ie Farmer's Advocate" for ten en "Th ave two brothers, George and Wallace. Poolly Princess. day I can. I Hike my teacheol every and is Miss Brown. I have a mile ut a halr to «o to school in summer. will give a riddle. alde in winter. and yet walked. Ans.- 1 hed dog amed Yet, and I drove and he walked will close my letter. (Age 9, Jr. IV. Class.)

Dear Puck and Beavers.-As this is not write a very long letter. I will mile and a hale to leter. I have eacher's name is Mise McMillan. I like ery much. I haven't missed a day olts: their names are polly Princes and Nellie Pride. I have two pet cows also. Well, as my latter is getting ishing the 1 will close for this time. Thamesford. Ont. GEORGE FREET Age 10, Class Sr .

Dear Puck and Beavers.-This is my o school, and am ten yeare old. go have one mile and three-quarters walk. We have three little calves, and summer. As this is my first thil will not write so much. I will close with a riddle. What wades in the water on its head ? Ans.-A nail in a success. Newton, Ont. $\begin{gathered}\text { MADELINE WAGLER } \\ \text { (Book Senior Second.) }\end{gathered}$

Dear Puck and Beavers, - 1 am roing o tell you about my dog. He is a
ollie dog. I got him when he was a pup, and trained him to draw me on my want to go He has a white breast and four whit feet. He is tan-colored on the bacis Well I guess I will close with a riddle and over the land and always has it head down? Ans.-A horse-shoe nail. orangeville, Ont. normain mcFawl.

Dear Puck and Beavers.-As this is
my first letter, I will try and do hest. My father has taken "The Farmer's farm four miles from the village of Arva. I go to school every day that
is nice, and like it fine. My teachar's name is Miss Mason. There are thirteen pupils going now.
I have a big dog ; his name is Pery. He weighs about sixty pounds. He is black, with a white necktie around his
neck. How many of the Beavers have a dog like this? ${ }_{\text {I saw a robin the } 12 \text { th of March. He }}$ chirped as if spring had come. I heard other day. Arva, Ont. ANNIE DONALDSON

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Specially made for House, Floors, Barna, Fences, Implements, Carriages, Etc. They have experience of over
half a century behind them and half a century' behind
none 'better can be made.

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Gravity Washer
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Toronto, Ont.

Doar Puck and Roavars.-This is my The "Farmer's Ad
first letter to your circle.
 catar", for two years. We live Advofarm, one hundred acres of land. Wo
heve two horses and nine catlo heure when sheps and nine cattle, and
tourteen shem
Rell Billy. I mo nine years old. Iat named school every dav. I crose two brigese.
I like to go to school. My toacher's name is Mise Chatmen.
JOHNNY A. Charlo, N . B.
Dear Puck and Beavers.-I thought I would wite again, as I didn't see the other in print. My father has taken
"The Farmer's Advocate"
. can remember. I go to ochool, and am
in the third reader. our teacher's in the third reader. Our taecher's
name is Mise Weir. I like her very
much Wor much. For pets I have a little oort and a
will close now.
 (Age 11, Sr. III.)

## Towser:

 By Ada L. BelowI don't care fer finhin'
Since ${ }^{\text {Towsers's gone. }}$
got
Keep thinki in' how wed dig ser balt Over by the gardon gate,
But now I have to dig alone,
Recon
Because he's gone.
'Nd I don't want $t$ ' swim no more Since Towser's gone.
He allus use $\mathrm{t}^{2}$ gane git
vim with There weren't no dog could swim lile ho But now he's gone.

Since Tower's got the cowe
Since Towerr's gone.
${ }^{\text {A }}$, great it it limp lont mames in my throert. Fer it just stays,
Now Towser's gone
' Nd when I go t ' bed at night, Since Towerrs gone,
Somehow $I$,
 An ${ }^{n}$ oh, how I just
He hadn't gone

The Plow.
I am a worker.
Sleep on and take your rest Though my sharp coulter shows whito
in the dawn Reating through the wind and ralin,
Furrowing hill Furrowing hill and plain
Till twilight dims the weet
And I I stand ḍarkly against the night I am a siby. worker, I, the plow.
1 feed the peoplos,
Fagerly mait on me
Hagerly wait on me
High-born and low-born, pale chlldren of King wame
Kingdoms may rise and wane
War claim her tithe of slain,
Hands are outstretched to me,
Hat
Master of men am II seeming an alave,
I feed the peoples, I, the plow
I prove God's words true-
Toiling that earth may give
Fruit men shall gather with songa in
The sun.
Where sleeps the hidden grain Corn-ields shall wave again;
Showing that while men live Sow seand nor harvest while men live ever will
Nor I prove God's words true, I, the plow.
$-\mathrm{V} . \mathrm{F}$. -V. F. Boyson, in Everybody's Magazine "'Well, Johnny. what was the text today?" asked a proud fathor of his
small son, who had just returned from small son, who had Just returned from
church.
"Let me fink, faver,") said Johnny, ae he scrate hed his head in deep thought
". oh, ves. I remember. It wh ingnt be scared. you'll get your quilts all $\underset{\substack{\text { right' } \\ \text { John's } \\ \text { Jather, after pausing a while }}}{ }$ John's father., arter pausing a while
over this queer text, called up the minister.
"Could th thou tell me what was this morning's text. Mr Jones?" he aeked and was cot the comforter conepty,: Mack's Sational Monthly.

Fashions.
how to order patterns. Order by number, giving age or moas-
urement as required, and allowing at leament as requirrod, and allowing at state issue in which design appeared. Also ten cents PER NUMBER. If two num-
becs appear bers appear for the one sult, one for
coat, the other for akirt
twent
 ment, "'The Farmerd Advocite and Home
Magazine," London, Ont. Be siga yaine, London, Ont. Be sure to
seme Many forget to do this.
 Dessge by May Manton.
7836 Long Coat, 34 to 44 bust.和


7849 Four-Piece Skirt.
22
to 30 waist.


T TSE PURITY FLOUR for one baking, and every member of the family will taste the difference. Your Bread yill be richer and finer flavored and your buns, rolls, cakes and ples will be pronounced delicious. The Grocer is authorized to refund your money if PURITY does not give you absolute satisfaction.

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To Threshermen


 TERMS Threo emta per word ench faretloe Whinde, Named and andirese ordee counted. ALL winde of farmi, Frult farme a spectalts. ATM FOR VANCOUVER ISLAND-Canada's derty people well; zood profts for ambitioueu men

 FOR Scotch Collie puppies, write for particulars
Roy Price, Port Rowan, Ont. RUIT and garden farin for sale, about 15 acreso oube of 8 roome, good stable (frame), cement . Meil drained. For further particulare, apply N Hepprul iterature for Bible studenta free 0 WANTED, A Beneraw servant for facily of


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 Rice's Salt
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BCE L L L $\underset{\text { aro puaranteed to outive and outast all }}{\text { DR }}$ R

GHUREH BELLS


## CHINES AND PEALS

Menopal beus a specimity wCshmie bell foumory co.o


The Song My Paddlé Sings
By the late Pauline Johnson. West wind, blow from your prairie nest.
Blow from the mountains, blow from the The sail is is it The sail is idle, the sailor, too ;
Oh, wind of the west, wo wait for Blow, blow !
But never a tow so,
But never a lavor you bestow You rock your oradle the hills between,
But scorn to notice my white lateen
stow the sail, unship the mast
wooed you long. but my wooed you long, but my wooing's My paddle will lull you into rest.
0 drowsy wind of the drowe o drowsy w
Sloep, sleep,
By your 'mo
By your mountain stepp,
Or down where the prainio
or down where the prairit grasses sweop!
Jow told in slumber four laggard wing For soft is the song mour padale sing.
August is laughing across the aky, Drift, Dritt,
Where the hills uplitt
urrent swint
The river rolls in its rocky bed ; Mip, dil While the waters fil

And oh, the river. runs swifter now
The eddes circle ebout my bow. SWirl, swirl ! How the ripples cur

And forward tar the rapids roar,
Fretting their margin tor evermo Fretting the
Dash,
dash,
Dash, daah,
With a migh
They seethe errash
B8 strong, o padele 1 Be brave, canoe
The reckles The reckless waves you must plunge Reol, reel,
On your trembling keel,
But never a fear
We've raced the rapids, we're far ahea We've raced the rapids, we're far ahead
The river slips through its silent bed. Smay, sway,
As the bubbles spray As the bubbles spray
And fall in tinkling th

And up on the hills against the
A fir tree rocking its lullaby.
Swings, swings,
Its emerald wing
$\underset{\substack{\text { Its emerald wit } \\ \text { swelling the }}}{\text { the }}$

Howlers.
Children's "howlers", being always pop-
ular, I extract the following from "'The ular, I extract the onlowing from "The "Thy
University Correspondent," which lately "Denmark is washed by the Catty : and the Scraggy Hack.
"The Seven Great Powers of Europe are gravity, electricity, steam, gas, Aly wheols and motors, and Mr. Lloyd
George.
'OQnen "Queen Elizabeth was tall and thin,
but she was a stout Protestant "'During the Interdict in John's reign,
births, marriages, and deaths wore not allowed to take place. Defonsory, because he was so faiththul to
 ${ }^{\text {C'A A }}$. Kelt is part of a Scotchman's "A l'aide de son filet.-With the help of his young lady.
."Cave canem.-Beware lest I sing. On ne faut point disputer les gouts.-
One must not quarrel with gouty people "Connubiss aurver arue novis operate
juventus.-The young man was sngaged juventus.-The young man was sngaged
to nine cultured wives. "A vacuum is an empty space with
nothing in it; the Pope lives in one "A vacuum is an empty space full of
nothing but Germans (germs ?). "A Conservative is a sort of green-
house where you look at the moon.
"Parliament assentlat. Parriament assembled in
and dissenbled in in Joper

Questions and Añswers.







## Veterinary.

Lump Jaw--Gracked Hoof. 1. Heifer has lump jaw. I gave her doses, but it has not curred.
2. Same heifer went lamed. in fore foot. I poulticed hit, and there are throe cracks. Ane 1 git g the C . Ans. -1 . Details for the treatment, are did not give sumficient of the drug. Give
it three times daily. Commence with
Cole it three times daily. Commence with
1 -dram doses, and increase the dose by harl a dram daily until she refuses food and water, fluid runs
mouth, end them eyes and
skin
becomes surfy. mouth, and the skin becomes scurfy.i. hen any, of these symptons become well marked, cease giving the drug.
sary, repeat treatment in
two
monthss. In order that the treatment may be offoctive, it might be eiven in graduallynareasing doses until some of the symp-
toms noted become well marked. Some cases are not curable.
2. Remove all partially-detached horn,
pare down well, and allow free access tor pare down well, and allow free access for the pus. Kepe in comfortable, clean
atall, and apply warm linseed-meal poul-
thee ticea until lameness disappearse and noul-
horm fills up the raw placee


Have a nice Jorsey cow, freshened six nonths ago, gives thre-- parts of a pail
of milk, but ii troubled with sore teat
in the ther look lider. The little places on them molisture uncers, are scabby, and , have
underneath.
It makes Cuite troublesomeathe to milk. makes her will you ate
do with her? in every other way.
C.. M. $\mathbf{F}$. Ans-As well as we can judge from the
deesription, your cow is suffering from deacription, your cow is suffering from
cow pox, a rather troublesome and contawlous, a disasearer troublesome and con-
tare must be taken
not to convey, it not to convey it from one oco to an-
other on the miker's hands, clothes, other on the milker's hands, clothes,
ote. Drees the sores three times daily with the following ointment: Boracic
 raseline, 2 ounces. Mix.

Probate.
a a testator, have, after the death which to have the will probated? which to have the will probated?
2. What is the usual fee charged?
Ontario. Ans.-1. There is no ESKIMO. As a general rule, executors are allow. year from the testator's death in Which to obtain grant of probate from state. 2. There are various fees: Surrogate, or's. The amount of each depends large ly upon the nature and extent of the sotate, and, accordingly, no amount could

Gossip.
At an auction sale of Holsteins, May th and 7 th, held at Algonquin, Illinois,
by R. E. Haeger and Mr. Getzelman, by R. E. Haeger and Mr. Getzelman, a
total of 178 head were sold for an
 cows sold respectively for $\$ 1,225$, Five
$\$ 1,025, \$ 135$, $\$ 1,025$, $\$ 975$, and $\$ 830$, and twelve $\$ 785$ each.

## Hodgkinson \& Tisdale, Beavertbon, Ont., mporters and

 Clydesdale horses, report a good seamembers of the firm are sailing for France this week, and expect to bring out a very high-class shipment of Perch-eron stalions and mares for next sea
son's trade, which the

## Gasoline Engines

at every low price, Sizes to to h. h. Also one Dunnville CADIAN ENGINES, LIMTTED Ontarlo


THE POULTRY BOOK

 Moteres stamp tapub. $\mathrm{Co}_{0}$.

## Gossip.

Kyle Bros., importers and breeders of horthorn cattle, whose post-office adthet, to take adventage Ays, they have changed it to R. R. No. they have chat
Drúmbo, Ont.

Mitchell Bros., breeders of Shorthori attle, Burlington, Ont., report the following sales :- To Wm. Waldie, of Stratora, the imported bull, Newton Friar. He is a well-bred Fora, a great, thick, ow-set fellow, and a prizewinner at Londo Rosebud, M, Royal Warrant, bull. We an extra thick, stylish in our used these two imported bulle They have both gore lettipg them go. They have both gone into good hands. pedigrees show them to heir best show blood produced in Scothe To R. Connor Co. Auburniolo wi. whose manager was sent over to select the best show yearling bull he could And in Ontario, the thick, stylish, low- get Missie bull, by Bandsman (imp.), His dam and grandam are about the beat ever on our farm. To Chas. Curry,
L'Amable, Ont., one yearling buil. To w. Vivian, Nelson, Ont., one yearling Oull. To C. E. McIntyre, Port Stanley, Blossom bull, from imported; Bire and dam. To J. G. Thompson, Mildmay. Blossom bult, by Bandsman (imp, Orange
 call, by Bandsman. This was one of the best we had this season, an extra
deep-fleshed, low, thick calf, Penwick, Quinn, Ont. calf. To Wm. stylish yearling bull, by Village Dule (imp.). To John Halermehl, Newstadt. Ont., an extra heavy-set Jilt bull call.
To Thos. Thomson, Headford, Ont., one Village Girl bull calf, of a very breedy appearance. To Geo. Riley, Millford Bay, Ont., one growthy yearling bull. They their junior yearling show bulle, Ansides portation is in quarantine, among whleh is a very promising dark roan twelve months' bull call that will be for sale

## Trade Topics.

lawn, or reseed the old one. See the advertisement of J. W. Banwoll, Wauke gan, Ill., in another column, and write
him for free booklet.

Attention is called to the advertiseSilo, manufactured by the Natione Fire Proofing Company of Canada, Ltd. Traders' Bank Building, Toronto, Ont. The Natco Everlasting Silo is built of and moisture-proof. A fifty-page illustrated booklet has been issued'by this Besides containing had on application. construction, this little booklet sives some successful feeders' methods in feed-
ing stock worth having, as the articles are by such noted writers. as Prof. H. G. Van
aik far Catalogue advertiement, and

C
CRETE roads aave the public money, their cont of maintenance is solow.

Concrete roads are within the reach of every community-the first cost is very little more than that of a good macadam road; the ultimate cost is infinitely leas.

T
HR cost of maintaining 33 miles of concrete road in

Wayne County, Michigan, foes not exceed $\$ 6.00$ per mii. er zar

It costs Peel County, , natario, $\$ 900.00$ per mile to maintain macadam roads for the same period.

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upwarde, about half what you pay for others, and you upwards about half what you pay for others, and you cular "A," whiche gives full partiticulars of our trial offir-
cult
with wilar "Ari" which gives full particulars of our trial effer DOMO SEPARATOR CO.
Brighton, Ònt.
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and get any thickness desired. This cream-regulating screw is placed on the top disc for your convenience, so This you do not need to take the bowl apart to reach it. mention it merely as an example of how carefully and thoroughly the Standard is built, down to the smallest detail. A booklet, explaining the entire construction of the Standard Cream Separator, and telling why it has be mailed free as soon as we get your name and address.

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Head Office and Works: RENFREW, GANADA Branches: $\begin{gathered}\text { Sussex, N; B. } \\ \text { Calgary, Alta. }\end{gathered}$

Questions and Answers. Miscellaneous.

I have a Hackney colt that will be a year old in June. His hock swelled about a month ago. It appears to be thoroughpin or bog spavin. Swelling seems to go dówn considerable when out on pasture. He is scarcely lame, except when backing up appears a little stiff. Can there be anything done for it ? Ans.-Get a blister made of 2 drams each of biniodide of mercury and cantharides, mixed with 2 ounces vaseline. Tie so he cannot bite the parts, and after. clipping the hair off around the swaily for two days (ber wher once daily for the third day wash well in). On the third day wash of and apply swer in. Let loose now and on every day until the scale con
necessary, repeat in a month
"Exploding" Ground Hogs My farm, being a light, gravelly soi is nearly overrun with, groundhogs, or woodchucks, and it seems almost impos-
sible to get rid of them. sible to get rid of them. I saw in
your paper some time last summer, in your paper some time last summer, to get rid of them by using some explosive. Could you please give number of the paper, numberipe th this is the time groundhogs do the harm? J.S. H. Ans.-The item you saw was as fol lows: Take a piece of calcium carbido
about as big as a butternut, dampen it and drop it in the hole; cover with an ald blanket or sod for a few moments to allow gas to generate, light a match, place it under your blanket, and you have an explosion that kills the groundhog. The explosion of the gas gives a shock to the groundhog and leaves the hole filled with impure air.

Hydro Operations.
Can you tell me what powers the tering on private property, cutting down trees, etc.? I am told they can do as they please without regard to the damage they inflict; and that the amount they pay in damages is only nominal. Below Iroquois, they have cut down rows of big maples, and I am told all they paid was $\$ 25$ per tree. Considering that it cost the Bell Company $\$ 600$ to re-
place a tree they damaged in and the U. S. Supreme Court ha awarded $\$ 500$ for one destroyed in New
York State, $\$ 25$ is very smatl York State, $\$ 25$ is very small. If they
pass in front of my house, it will damage my property to the extent of at
least $\$ 1,000$, and I understand the line is to run on the south side of the road,
where my house is. Ontario.
Ans.-They have absolute authority,
without the consent of the owners Ans.-They have absolute authority
without the consent of the owners o
persons interested, and without any pre
requisite or requisite or preliminary action or pro-
ceeding whatsoever, and without any ceeding whatsoever, and without any
other sanction or authority, to enter
upon any lands required for the purpose of constructing, erecting, maintaining and operating thereon the maintaining, transmission
lines, etc.; but compensation must tines, etc.; but compensation must be
made to such owners or persons inter-
ested for all damarge ested for all damage to such lands (int
cluding buildings, trees, etc) resulting from the exercise of such
powers. powers. The claim for damages must
be presented cordance with the the Commission in ac
tario Public Works actions of The On-
tarion
$\qquad$


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are what you should use on waggons, implements and everything else around the farm that weather can rust or rot. With its sturdy protecOTHER "HIGH STANDARD" PRODUCTS
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[^0]Questions and Answers.
Miscellaneous.
Spraying Potatoes--Line Fence. 1. About how much water will it take
o Paris green five acres with the horse 2. How much Paris green is needed in
same, and the best method of mixing? 3. Is there any poison better than
Paris green?
Does Paris green hurt the Caris green? Does Paris green hurt the
vines
4. How is a line fence divided when both parties want the same end? $\begin{gathered}\text { R. } \\ \text { J. M. }\end{gathered}$ Ans. -1. The quantity of liquid neces-
sary will depend upon the size of the
vines, the fineness of the spray care taken to avoid waste. The amount advisable also depends somewhat upon
the quantity of poison used per barral. One successful potato-grower wrote us a
few years ago, stating that he mixed two pounds of good Paris green with
fifty gallons of water, and applied this to two acres. Others, using a much
weaker strength, have recommended from two to four forty-gallon barrels per acre,
deending upon the size of the vines, depending upon the size of the vines.
With a proper spraying outtit, we should suppose pour could cover on an arere with
shrel while the vines are small, using more later.
2. Use one pound of Paris green to to
forty gallons of water, and add two pounds of fresh lime, slaked and strained lime alone, the standard Bordeaux mixture, :4:4:40, with the poison added. For
fuller directions, look up the spray callendar, published in our issue of March
27th last. When adding Paris green, either to water or , to Bordeaux mixture, reduce the green first to a thin, even
paste, with a little water in a cup or bowl, then pour this into the full barrel. pounds per barrel; is preferable to Paris green, but somewhat more expensive. We recommend it, though. Paris green often
injures
an so when combined with lime either alone or in Bordeaux mixture. 4. Agree if possible; if not, call in the tenco-viewers.

## Book Review.

making the farm pay. Agricultural books are filling an im country to-day. Books based on practical experience are always valuable. A new volume, "Making the Farm Pay, by C. C. Bowsield, has Just been. pub
lished by Forbes \& Co., Chicago. The author of the book lives on a farm, and knows the difference between book- -arm-
ing and actual soll tillege ing and actual sorn thage or care or
live stock. Modern farming needs the application of commercial ideas, and real success can only be attainea dy keeping
abreast of the changing conditions and abreast of the changing conalions and along with soil tillage. A farmer may know how to produce a crop, and no understand how to sell it to best ad vantage. No citizen surpasses the goo
farmer in the skill and industry with which he pertorms his labor, but in many cases his time is frittered away with the
least profitable of products, while overlooks opportunities to meet a constant market demand for articles which return large profts. These bre a lew
true statements
trom
the book, which goes on to discuss the great question, "better farming." The to the
believed by the author to be the of the American farmer to-day, as wel
as of the business world as of the business worid.
deals extensively with intensive farming deais
Every tion-the raising of vegetables, fruit fowers, poultry, and stock. Intensive and diversified farming are handled in an
able manner. The care of the soill the able manner. The careses, the use of
treatment of farm diseases by-products, intelligently meeting the
market demands and selling at the market demanas and selling at the best price are a few of the inportank cossed
which are treated. Farming is siscussed
in its relation to the entires litito of the nation, trom the viewpoint of the prac
tical tical farmer, and all those engaged
other branches of economic enterrorise. other. branches of economic enterprise.
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tentment and happiness, will come to dwellers in the country when they grasp
the eternal truth that they have the the eternal truth that they have the
noblest vocation on earth, and one that noblest vocation on earth, and one that
may be made to yierd an income fulty may be made to yiel an income fuit
as large as that of the average city
business man." business man."
The book contains 300 pages, is wellbound, and printed in good, bold type.
It may be had through this offce It may be had
81.10 , postpaid.

Potato Dry Rot.
The Nebraska Experiment Station has
fust issued Bulletin 134, on "A Dry Rot of the Irish Potato TTuber.", For soveral
years
the
Department years the Department of Agricultural
Botany has been engaged in a study of
Ber Irish potato diseases in Nebraska. Among these the dry rot of the tuber is
one of the most important one of the most important. Buyers and
commission men have reported losses, commission men have reported lossee,
during storage, of from 20 to 60 per cent., due to this dry rot. In fact, the most important feature of this dry rot
is the fact that it forces the is tho
sale of the crop as soon as dum
Thie sale of the crop as soon as dug. This
tends to demoralize the market, and cends the amoraize the market, and
placers, since te at the mercy of the
buy buyers, sine he is himself arraid to to
store his crop and mat tor beter store
prices. The dry rot here described is a stric
tuber rot affecting mature tubers only Neither the etems nor the young tuber are ordinarily in the least affected.
Natural infection! is known to occur solely through wounds produced in the process of digging or subsequent han-
diling. In many cases this rot securod diling. In many cases this rot secured
a toothold through wounds produced by a Roothold through wounds produced
scab-producing animals of certain sorts,
 to fungus parasitism, though the latter
method is certainly very rare, if we may method is certainly very rare, if we may
Judge from the laboratory experiments. The rotting is rather slow, and in gen-
eral, within four to six weaks trom one third to three-fourths of the tuber is destroyed. The epidermis of the rotted
portion becomes silighty portion becomes slightly wrinkled and
usually has a characteristic bluish color suaniy has a characteritic bluish color,
on account of the rapid destruction of
the the underlying tissuus the surface over
these areas soon becomes distinctly de$\underset{\substack{\text { these ar } \\ \text { pressed. }}}{ }$
The rot may make its ippearance at any point on the surface of the tuber,
though more commonly perhaps at the bud end of the tuber. $\begin{aligned} & \text { There is is no } \\ & \text { watery degeneration or the tuber unless }\end{aligned}$ watery degeneration of the tuber unless
other organisms gain entrance, so that thiser is ing in fact a dry rot.
Numerous inoculation experiments have
shown that this dry rot is caused by a parasitic fungus, not previously de de
scribed, for which we have proposed the seribed, for which we have proposed the
name, Fusarium tuberivorum
same the the
same, it has also been demonstrat ed that this dry -rot fungus doos not
cause the injury to the leaves and stems orten referred
In other words, the present dry " wot ", the tuber is not connected in any man-
ner with diseased conditions of other parts of the plant.
Extensive experiments Extensive experiments have been con-
ducted to learn if any treatment might
tect ducted to learn ir any traeament might
be applied before the potatos were
stored that wourd reduce the amount of stored that would reduce the amount of
this rotting.
These These experiments have clearly demon-
strated that dry rot may be held in
chenk through treatment of the tubers strated that dry rot may be held in
check through treatment of the tubers
before being placed in the storage cellars. For this purpose the best reselts
were secured through the use of either were secured through the use of either
formalin dip, formalin vapor, or the
limesulphur wash imme-sulphur wash. Not only did the
tubers in these lots show a very small percentage of dry rot, but they were in
excellent condition otherwise when re $\left\lvert\, \begin{aligned} & \text { moved in April. The storage time. .it } \\ & \text { should be remembered, employed in this } \\ & \text { sonorime res. }\end{aligned}\right.$ experiment is longer than would ordi-
narily be employod by the average farimer
and yhis gave the treatments a severe
tost test. Unde erdine treatments a severe
tarm conditions
the development of the formalin vapors is not easily secured, and therefore we
would particularly recommend the wise
of the formanilin dip as the easiest methorid to employ, and one that
cellent results in practice."

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Questions and Answers. Miscellancous.
A Mineral of No Value Kindly tell us the name of this stone, and whether of any value. H. J. A.
Ans.-The specimen submitted is only a Ans.-The specimen submitted is only a
piece of gneiss of no value. It contains piece of gneiss of no value. It contains
quartz, feldspar and black mica, which is quartz, feldspar and black mica, which is
sometimes golden in color. There is sometimes golden in cols
nothing metallic about it,
s. woolverton, Geologist. Concrete Cellar Wall. I am thinking of building a brickveneer house $32 \times 28$ feet, and having never heard of a concrate cellar for a house, would like your advice. 1. Would concrete make a good cellar
wall, or would stone be any better? wall, or would stone be any better?
2. If you think concrete would be best 2. If you think concrete would be best,
how thick would it need to be? how thick would it need to be?
3. In what proportions should the ce 3. In what proportions s?
ment and gravel be mixed?

SUBSCRIBER. Ans.-1 and 3. In many parts of the country cement concrete in the form
either of a solid slop wall, or of cement either of a solid slop wall, or of cement blocks, is almost the only material employed nowadays in constructing cellar
walls. If the slop mixture is made fairly rich, say, $1: 7$ or $1: 8$, and the outside is "jarged" or plastered with a rich mixture of cement and sand, such
a wall will be more impervious to water a wall will be nore tmpo wall. The inthan an ordnary should be either plasside of the waent mortar, or washed tered with cement
with neat cement. The portion of the wall above ground may be constructed of cement blocks, or may be plastered
and marked off in squares as desired. and marked off in squares as desired.
2. Ten inches is thick enough if the 2. Ten inches is
wall is well built.

Suffolk Punch Horse.
Having noticed a short article in a
late
number of "The Farmer's Advolate number of "The Farmer's Advo-
cate", in regard to the Suflolk Punch
breed of horses, I would like to know breed of horses, I would like to know
a little more about that breed, and a little more about paper might fornish thought information. About what weight
the
in are the matured animals oubish sexes?
Would it be possible to publish an illustration of a typical Suffolk stallion and mare? Ans.-The Suffolk Punch horse is a
draft horse, originating, as far as is
knipwn in the County of Sufolk, in krown, in the County of Sufrolk, in
England. It can be traced back to England. It can be traced back to
about 1700 . It is believed to be very pure blooded, and has been developed
chiefly by farmers. It is a horse of
good quality, ranging from 16 to 17 good quality, ranging and chunky, and
hands high, short-legged and
weigh weighing
most favored types. Greater weight than this is often obtained, even up to
2,200 pounds, but Suffolk breeders like a little smaller, more closely-knit horse.
The color is chestnut, varying in all the The color is chestnut, varying in all the
shades. from light to very dark. The breed is noted for its small ears, and
very often individuals of the breed show Roman noses. He is a horse of great
middle, having a well-sprung rib and great depth. The legs are free of long
hair, and they are sometimes criticised hair, and they are tight in bone. They are said to be excellent horses
press-delivery press-dedvery Canada, and we have no
are bred in
good photographs from which to illus good
grate.

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 SHORTHORN Bulle and Hoterercollion Former drio Joy of Moring (imp)


Woodholme Shorthorns



 TREALURE Vhorthorns Pure Sootch mabit breadraf Scotch-topped, of heavyy milkenh


Hope of a good job."-New Orleans


Pedigree With the Animal a pedigreed animal being brought to th annoyance and loss that at times the hear of either through the negligence wo the dishonesty of the seller. The ped gree is being paid for, and should be saction as much a part of the tranpaying the mone over the animal or paying the money
trade, W. F stevent ine pure brea missioner of Alberte, tion clearly in the following wo situ "The time to pay for a when it is delivered. While most breed ers are honorable, many are procrastinating, some are negligent, and a are downright dishonest.
In order to protect themselves against
loss at the hands of the procrastinating and negligent, buyers procrastinating mals will do well when dealing ant breeders of whose honesty they have no
knowled knowledge, to withold a part of the
purchase money till the pedigree is sup plied, or at least to deposit it in a
bank to be pead bank to be paid upon delivery of proper
certificate of registration. This can done without exposing either buyer o
seller to any riiks, and to both. My experience with bank mair agers is that they are always willing to perform this service for the protection
of their "As a rule, the buyer pays over his
money or writes his chequen amount at the time of purchasing, and the sener promises to lorward a pediyear or more of waiting he after Sometimet that he has been done, these animals with a promise to supply pedigrees, and he finds himself exposes also of an action tor dof disgrace, but all of this could easily hamages. been avoid
ed by the exerci ene ad by the exercise of a little caution a
the time of buying '"The time of year is at hand when every person who contemplates buying a
pure-bred animal, should keep in in min pure-brad animal, should keep in mind
the warning contained in our opening sentence, that the time to pay for a
pedigree is when it is delivered, More than the average complaints have been heard during the past season from
men who have experienced dififulty procuring pedigrees for pure-bred stock and have purchased. Weeks, months elapsed before the registration years, hertificate was passed on from seller to purchaser,
causing not a loss. In such cases the seller almost invarition papers are delayed in the National Live-stock Records office, and says that
as soon as he procures these the the pedit gree will be forwarded. This is a very
lame reason excuse, inasmuch as there is no
reaistered the animal should not no registered by the time it is a month old,
and the pedigree supplied at time of
sale "The Farmer's Advocate" has gone
thoroughly into this matter, and it has been assertrined that it is customary for
certificates of registration Nertincates of registration to leave the
National Live-stock Records oftice with in
two days of receipt course, applications must be correct when
received recived, otherwise correspondence must
take place. Now and again, when an unusualy. largow number again, when an andications
come in, the Live atock Records office may get thre ar four days behind, but
"The Farmers Advocate" is assured by
Thw Rrant Records Association, that of the Nnationay
Recessary
delay occurs at the Records office, and he
further statas.


 the delay would be the time e thakese a
letter
lowing two reald us and be returned, al-


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MAY 29,1913
It merely to shield their own negligence Tonanced by those who pay them cash
for pure-bred stock..-Farmers Advocate


## Gossip.

T. Davidsop \& Son, Meadowvale, ont., breaders of Yorkshire swine, in
their new advertisement in this issue, their new advertisement in this issue, announce that tocermer and April pigs of both sexes from large litters and good
mothers, at moderate prices, rogistered, mothers, at moderate prices, registered, tree on board train, and satisfaction suaranteed. Moadowvale is a station on the C. P. R.., one mille from Streetsville Junition, twenty miles west or Toronto, tisement and get prices.

At the 28th annual meeting of the Holstein-Friesian Association of America, to be held in Syracuse, N. Y., on June 3 and 4 , the rollowing addition to Ad-
vinced Registry rules, and matters pertaining to the breed will be discussed : "To appropriate money and authorize the Board of Offcers to offer to award special prizes of duplicate premiums where won by animals recorded in this Herdbook, in public competition for yields of milk or butter at such exhibitions as the Board of Officers may select, and to authorize special prizes at fairs where no competitive tests are held, or to establish competitive tests under such
conditions as they may deem best, and conditions as they may deem best, and
to offer prizes for the exhibition of catto offer prizes for the exhibition of cat-
the at such fairs and expositions as may the at such fairs
be deemed best.

The annual report of the Manitoba Dopartment of Agriculture shows a marked
increase in production in that Province increase in production in that Province
for 1912. In grain production, an increased yield of over $22,000,000$ bushels over the previous high - production year
-is shown. Much of the wheat in east-
ern Manitoba, owing to bad harvest ern Manitoba, owing to bad harvest
weather, was reduced in grade. The average yield per acre in 1912 was 20.7 bushels, as compared with 18.29 bushels
in 1911. The oat crop showed a small in 1911. The oat crop showed a small
increase in yield, being 46 bushels per acre, as against 45.6 bushels in 1911, Barley, at 31.5 bushels per acre, showed an increase in yield of nearly 4 bushels
per acre over that. of 1911 . Work with per acre over that, of 1911. Work wit
alfalfa has proven that it may be suc cessfully grown in nearly all parts of the Province.

## Trade Topics.

$\qquad$ constant supply of good water. A large
percentage of this must be obtained fro wells, and in very many places it is
necessary to drill for it. Drilling make necessary to drill for it. Drilling makes
machinery and drilling tools necessary Look up the advertisement in this issue of the Listowel Machinery Co., Listowel Ont., and write them for catalogue wit full particulars.


THE FARMER'S ADVOCATE.

## FAIRVIEW FARMS HERD

REMEMBER:- Pontiac Korndyke sired the bull that sired the new 44-pound cow.
Do you want a sire to use that has such Do you want a sire to use that has such transmitting ability? If so secure a son of
Pontiac Korndyke, or Rag Apple Korndyke 8th, the strongest bred Korndyke bull
in the world. in the world. E. H. DOLLAR, Heuvelton, N. Y.

Near Prescott. Ont.

Whk Have only two bulls of the serviceable age left and are offering a few young cows and heifers reasonable prices. We are now in a position to offer
lag for the best in breeding lag for the best in breeding. SIRRIGR BULLS AND BULL GALVES FROM A.R.O.DAMS. Sons of Johanna Concordia Champion, No. 60575, one of the richent bred and beet butter in 7 days; fat 4.32 per cent., and Johanna Colantha 2nd Johann 85.51 lba 7 days ; fat 5.02 per cont. Average butter in 7 days 30.06 Ibs. $;$ veverage fat 1.07 per
cent. If you want to increase the butter-fat in your cent. If you want to increase the butter-fat in your herd, let me mell fyou one pel
dioe bulll. I can spare a few good cows and heifers bred to the "Champon." Write me your wants and I will try and please you. MAPLE AVENUS STOCCN SUMMER HILL HERD OF
Holstein Cattle and Yorkshire Pigs Do you realise that you must have another serviceable bull soon? Better go down to Hamilton right
doven and dee those well-bred fellows with high official bacting, that you can buy well worth the D. C. FLATTY \& \& SoN, R.R. No. 2. Hamilion, Ont. 'Phone 2471

##  pigs ready to wean. A. WATSON \& SONS, St Thomas, Ontario. L. D. 'Phone Fingal via St. Thomas.

## 

Made with tough, fire-resisting, everlasting AsphaltMastic will give you a drier, warmer house, at lower cost, in a month less time, than if you used lath and plaster.
Bishopric Wall Board is made by imbedding kiin-dried dressed lath, under 500 --bbs. pressure,
in sheets of hot Alsphal-Mastic, the other side of which in sheets of hot Asphalt-Mastic,
Saves Time-Bishopric Wall Board comes in sheets $4 \times 4$ feet ready to go on. It goes 8n quick-far quicker than lath and plaster., It goes on dry-you don't You can get into the new house at least a month sooner if
you sue Bishoroic Wall Board you use Bishopric Wall Board.
Saves Money-The first cost of Bishopric Wall Board is considerably less than that of lath and plaster. These is no expense for repars, for neither
dampness, vibration, setteng of foundations, nor anything else will ever make it loosen or drop off the wall
Moreover there is a substantial saving in coal bills, as a Moreover, there is a substantial
Warmer than lath and plaster. The Asphalt Mastic in which the laths are imbedded is absolutely air tight, blocking all drafts, and a non-co
the heat in in winter and out in summer.
Dryer-This Asphalt-Mastic is also moisture-proof If your house is lined with Bishopric Wall Board you wil never be troubled with that uncomfortable, unhealthy
dampness so common in plastered houses.
A Flat and Rigid Wall-Bishopric Wall Board is the only board made with laths. Laths are positively necessary to back up wall board to make it rivid and substantial-and to keep a perrectly fiat surface.
Without lath, wall board swells, warps, cracks and pulls way from the joints.
Easily Decorated-Bishopric Wall Board is surfaced with heavy sized cardboard, which takes Oil or Water Colors perfectly, and which forms an ideal
surface for Wall Paper or Burlap. Artistic panelling surrace for dds to to tiveness
Fire-resisting-The Asphalt-Mastic in which the laths are imbedded is toughened by a patented process,
and will not burn. Buildings have been saved because of and will not burn
Rat and Vermin Proof-The pests find it impossible to gnaw or bore through the tough,
gummy Ashphalt-Mastic. Bishopric Sheathing is made of precisely the same materials as Bishopric Wall Board, but the
finished surface is not so smooth. It costs only one quarter as much to apply as lumber and building "paper, binds cement or stucco as nothing else can. When weather boards are applied over it, the dead air upeco Write for Illustrated Booklet which explains fully the advantages of Bishopric Wal apply it and how it looks when put on the wall and Working plan for Bishopric Model Home-send 6 cents to cover cost of mailing and we will send you Architectural plan for Bishopric Wall Board and Bishopric Booklet. Write to-day.
Dealers-Our proposition for representatives in unoccupied territory is decidedly interesting. Write ue.

## Bishoprie Wall Board Co. Limitod

Sparks Street, Ottawa, Ont.


## Maintaining Hog Health.

The old idee that hogs must have a gone out. That, in most cases, is a matter of past history. Clean quarters, pure water, and healthy surroundings, will do Just as much for hogs as for the surest way to keep hogs from contegion. Some good coal-tar disinfectent, such es the femous Zenoleum, plays an important part in hog care and thrift
these days. If cleanliness is observed, and quarters be disinfected with Zenoleum, the hogs will be kept free from Hice and worma, and by the same means
there will be the least possible chance for swine plague to get a hold. The use of a good disinfectant unquestion-
ably pays anywhere, and nowhere more than where hogs are being grown and
fattened. Zenoleum is used at fortythree diferent agricultural colleges, and hes proven itself to be such a disinfect-
ant. It is especially valuable to hogant. It is especially valuable to hograisers, among whom it has come to be
regarded as a sort of guarantee of conthuous health and profit
Write for a free 64-page Veterinary Adviser, to Zonner Disinfectant Co., 312

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Ty youmanta AYRSHIRE BULL
ut of a large teated R. O. P. dam, closely
related to one of the heaviest WRITE : COLLIE IER BROS
Beachville, Oyford Co., $\quad$ Ontario
High-class Ayrshires
ing a richly-bated young bull out of a so-lb.-a-day ang a richly bred
ported or Canadian-bred dam or sire, wrow, imFemales alla agee Mrices are easy. Kelso,


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OHE DIPPIIG KILLS ALL TICKS




ALLOWAY LODGE STOGK FARM SOUTHDOWNS

ANGUS
COLLIES
Fhe mention thelr reepective breeds. Write for PMome. ${ }^{\text {ROBT. }}$ R. REWEN, Stn. Byron, Ont. Tel. Office. Tamworths ${ }_{\text {some }}^{-A}$ few very choice spowsing meters ready to wean HRRERT GERMAN, St. George, Ont.
|Questione and Answers.

## Miscellancous.

Tuberculosis.
Would a two-year-old bull, bred from a pure-bred Ayrshire bull which, when be liable to have tuberculosis ? Would you think it adviser him? A subscriber Ans.-Not unless the young bull conracted the disease after birth. Unless fact of the sire having had the disease would probably ince of the young bull's getting it, providing he was reared in a different, providing

Intermittent Siphoning.
I have a well 12 feet deep, and 270
feet from my barn. The bottom of the feet from my barn. The bottom of the
well is three or more feet higher than my stable floor, into which I was wanting to run a tinch pipe from my well.
The water in this well in a dry only about this well in a dry time is only about two feet deep. I dug a
trench three feet deep from barn to well, nd intended laying the pipe, but I have been told since that the water would only run continuously, and that if I barn it would have to be started again. Is there any maens that I could use to make the water come after stopping it,
as I have no water to waste? Could
and there be a valve put in the pipe to hold
the water up? valve water up? If so, where should the
val in? I have a five-horse power gasoline engine in the barn
Could could it be used in case there is no no
better way, although it if possible? I am prefer not using diagram of the system. am sending you a planned.
Ans.-If the pipe from stab. G. M. is air-tight, then the water will not closed. It will be necessary, in the first
It the the is the place, to have a suction-pump at the tap to start the siphon-pump at the
this pump migh, and pipe so that in be left attached to the leak and the water drop back, the phould
would An ordinary cistern-pumpart the siphon. An ordinary cistern-pump, in good work-
ing order, should be ample for the
starting starting.
Sowing Nitrate---Nitrates in Peas-Binding "Advocates," ${ }^{\text {Etc }}$, 1. Can nitrate of soda be distributed
over grain that has grown three or inches high, without injury to it? 2. Will cow peas, turned in when just coming into bloom, have as good effect Golden Vine, etc.? 8. Does a crop of peas taken off at
the end of the season five as mut nitrates to the ground as if plowed in efore podding
ply, Have you supplied, or do you sup-
binding '"'The Farmer's Advocate"? I desire to keep mine intact, as I consider it one of the best
books of reference a farmer can have. 5. How do you sow Prof. Zavitz's annual pasture mixture? Is the sorghum
mixed with the oats or with the clover seed? Ans,-1 J. J. F. H. large quantity. USually one - half too
amount of this material constituting the fertilizer is sown after the grain is up,
but preferably when it is about an inch but preferably when it is about an inch
high.
2. On a soil tending towards a sand or light loam, there is a danger that
cow peas might loosen it up too but on fairly heavy loam, or on clay sors, they would be very beneficial, and
are one of the best green manures, even
better then  mates, and, on the whole, in chebec, the
commer common pea might be preferable.
3. No. The field pea contains in its
green state, or in bud. nitrogen, 1.1 ibs. of phosphoric acid, pounds.
4. We do not supply covers. best thing to do is to take the issues
for each six months of the year to a
bookbinder and have volumes.
5. With the volumes.
5. With the oats. or all mived to
gether.

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W ELL, that's our own particular business. Galt Steel Shingles will make your buildings waterproof, windproof, weatherproof and fireproof.

What's more-they are cheaper in the long run than wood or slate, can be laid for one-half the cost of laying wood shingles, or one-sixth the cost of laying slate.

We have some intensely interesting and valuable information to send you regarding this subject of roofing. A post card request will bring it by return mail.

Simply scribble the one word, "Roofing"' on the back of a post card, together with your name and address. If you haven't a post card handy, tie a string around your finger so you'll be sure to remember

ADDRESS :
The Galt Art Metal Co.s Limited 252 Stone Road, Galt, Ont

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 STOCKWOOD AYRSHIRES Trim bed boor beota by whe pionship bull at Sherbroeke ; also headed the lst-prize aged herd. All a gee ior ohe Satisfaction guaranteed. D. M. WATT, St. Louis Sta., Oue. Telephone in home.
Stomehouse ATrahiree
 hiccior gordon, Howlet, pee.
ELMHURST LARGE ENGLISH BERKSHIRES

Morriston Tamwortha and Shorthorno- Yorkshires Choies December sows and







MAIL CONTRACT
EaLED TENDERS ADDRESSED TO the Postmaster-General, will be received 20th June, 1913 , for the conveyance o His Majesty's Mails, on a proposed Contract for four years, six times per week,
over Rural Mail Route "H," from Bay oveld (South) Huron S. R., Ont., fron the Postmaster-General's Pleasure.
Printed notices containing further inPormation as to conditions of proposed Contract may be seen, and blank forms of Tender may be obtained, at the Post Offce of Bayitid, and at the omion
the Post-oflice Inspector at London, the Post-ome G. C. ANDERSON Superintendent.
Post-Omee Departmenc.
Mail Service Branch
Ottawa, Brd May, 1913 .


MAIL CONTRACT SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the 20th June, 1913, for the conveyance o
His Majesty's Mails, on a proposed Contract for four years, six times per week over Rural Mail Route "B," from Seaporth (West) (Huron S. R.), Ont., from Printed notices containing further in formation as to conditions of proposed Contract may be seen, and blank forma
of Tender may be obtained, at the Post of Tender may be obtained, at the Post
Omflces of Seaforth, Egmondville, and a the offce of the Post-office Inspector a London.

ANDERSON,
Superintendent.

| Post-Office Department. <br> Mail <br> Sttarvice <br> Branch, |
| :--- |

MAIL CONTRACT SEALED TENDERS ADDRESSED TT at Ottawa until noon, on Friday, th 20th June, 1913, Ror the conveyanece o
His Majesty's Mails, on a proposed Con His Majesty's Mails, on a proposed Con-
tract for four years, six times per week over Rural Mail Route (South-atat) from
Seaforth Ontario, to commence at the Seaforth, Ontario, to commence at the pleasure of the Postmaster-General.
Printed notices containing further formation as to conditions of propose Contract may be seen, and olank porms
of Tender may be obtained, at the Post of Tender may be obtained, at the Post
Omces of Egmondille, Searforth, and at Omees of Egmondville, Seaforth, and at
the ofice of the Post-oflice Inspector at London.

ANDERSON,
Superintendent.
Post-Office Department.
Mail Service Branch
Ottawa, 3 Brd May, 1913 .
Office Departmen
Service Branch
Service Branch


MAIL CONTRACT SEALED TENDERS ADDRESSED TO t. Ottawa until noon, on Friday, the Oth June, 1913 , for the conveyance o tract for four years, six times per weelk over Rural Mail Route No. A, from
Crediton (West), Ontario, to commence Croditon (West), Ontario, to commence
${ }_{\text {Pral. }}^{\text {Printe }}$
rmation notices containing further in Contract may be seen, and blank form
of Tender may be obtained offce of Crediton, and at the Office of the Post-office Inspector at London.
ost Offce Departme Superintendent.
Mail Service Branch,
Ottawa, 2nd May, 1913.

|  |
| :---: |
|  | SEALED TENBERS ADDRESSED Ottawa until noon, on Friday, the His Majes. 1918 , for the conveyance ract for four years, sixx times per weel

ver Rural Mail Route "D") wood (Shipka, Corbett), Huron Sas Ont., from the Postmaster-General Pleasure.
Printed
Printed notices containing further in Contract may be seen, and blank form fince of Dashm be obtained, at the Po at the Offce of the Post-offce Inspecto
at London.
ANDERSON,
Post Office Department
Mail Service Branch,
Ottawa, 2nd May, 1918 .
diser enter
MAIL CONTRACT

SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the 20th June, 1913, for the conveyance of tract for four years, six times per week Crediton (South), Ontario, to commence eral. Printed notices containing further in
ormation as to conditions of propose Contract may be seen, and blank forms
of Tender may be obtained, at the Post Office of Crediton, and at the office of the Post-office Inspector at London. Superintendent.
Post Office Departmen

## 

## MAIL CONTRACT

SEALED TENDERS ADDRESSED TO
the Postmaster-General, will be received at Ottawa until noon, on Friday, the
20th June, 1913, for the conveyance of

over Rural Mail Route "D," from Pari Hill (Mt. Carmel way), Ontario to com
mence at the pleasure of the PostmasterGeneral.
Printed
notices containing further in formation as to condions of proposed
Contract may be seen, and blank forms
of Tender may be obtained, at the Post Offices of Corbett. Lieury, Moray, Mount Carmel, Park Hill, and at the Offce
the Pust-office Inspector at London.


## MAIL CONTRACT

 SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, th His Majesty's Mails the conveyance of tract for four weans a proposed con week, over Rural Mail Route "C," from rom the Po Centralia Rwy. Stn., Ont Printed notices containing further in Cormation as to conditions of proposed of Tender may be obtained, at the Pos Offices of Crediton, Crediton East, Cenralia, and at the Offlce of the Postoffle Inspector
${ }^{\text {at }}$ London ANDERSON,
Superintendent.
Post Office Department
Mail Service Branch,
Ottawa, 5th May, 191 .


MAIL CONTRAC' SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the His Majesty's Mails on a proposed Contract for four years, six times per week, over Rural Mail Route from Stratiora master-Generaral's pleasure. Printed notices containing ormation as to conditions further inContract may be seen, and blank proposed or Tender may be obtained, at the Post
oflces of Stratford, Shateen the Offce of the Post-office Inspector at London.

ANDERSON,
Superintendent
Post Offce Department,
Mail Service Branch,
Ottawa, 7 th May, 1913 .


MAIL CONTRAC'
SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the
20th June, 1913, for the conveyance His Majesty's Mails on a proposed Contract for four years, six times per week,
over Rural Mail Route "F," from Exeter (West) (Huron, S. R.), Ont., from the Printmaster-General's pleasure. Printed notices containing further inCormation as to conditions of proposed
Contract may be seen, and blank forms of Tender may be obtained, at the Post
Offices of Exeter, Hay, and at the Offe Offices of Exeter, Hay, and at the Office
of the Post-office Inspector at London, - C. ANDERSON,

## Ost Office Department Mail Service Branch

## Ottawa, May 6 th, 1913 . 19

## (2)

MAIL CONTRACT SEALED TENDERS ADDRESSED TO
the Fostmaster-General, will be received at Ottawa until noon, on Friday, the His Majesty's Mails on a proposed Contract for four years, three times per week each way, between Brinkman's Corners General's pleasure Printed notices containing further in-
ormation as to Contract may be seen, and blank forms of Tender may be obtained, at the Post
offices of Tobermory ners, McVicar, and at the Office of the
Post Post-office Inspector at London. SNDERSON.

Mail Service Pranch,
Ottawa,
13th May, 1913.


MAIL CONTRACT SEALED TENDERS ADDRESSED TO at Ottawa until noon, wo bill Frideceived the His Majesty's Mails on a proposed Contract for four years, six times per week,
over Rural Mail Route from Gad's Hill Station (West) (Rostock Way), Ont., Irom the Postmaster-General's pleasure.
Printed notices containing further inRormation as to conditions of proposed
Contract may be seen, and blank forms of Tender may be obtained, at the Post Offices of Rostock and Khuryville, Gad's
Hill, Gad's Hill, Gad's Hill Station, and at the
Office of the Post-office Inspactor at Office ot
London.

ANDERSON, Superintendent
Post Omce Departmen
Mail Service Branch,
Ottawa, May 14th, 1913. GRAND TRUNK SVSTEM
Homeseekers' Excursions
To Manitoba, Saskatchewan, Alberta.

WINNIPG AND RETURN …....838.00 Proportionate low ratee to other polinth. Re turn limit two monthe.

 Tickets are aloo on mle vie Sarnim and North


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## Domano iony malliome of fortile scres, of , yors to the proupective aettler? Do you kiew that theee rich agricultural lande, ob- tainable free, and at a nominal cook are already producing grain and vegetableo second to none in the world? <br> For literature deccriptive of thin to terms, homestend regulations, mettiers' rates, etc., write to <br> H. A. MACDONELL 

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Special Interest to FARMERS' CLUBS We secure "Help" for Farmese From the country districts of the be filled up. Coptes eont mion get your "Help" about 6 week No fee charged. Only regular
fare on Ocean and Rail to paj. fare on Ocean and Rail to pay; this Summer or Fall if you een requirement early.
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This is the Shingle I Recommend for Barns

## 100 YearMetal

 MyZincCovered Corruşated Ironon the Walls of yourBarn"


${ }^{66}$HAVE been making metal shingle for farm barns for half a century. I found recently a hundred-year metal for my shingle. It surpasses and outclasses anything else in the world that a man can use for a barn roof. You want a 100 -year roof on your barn, at about the cost of cedar shingle, don't you? Of course you do."
"Well, that means my shingle. My metal shingle will cost any farmer less to-day, and be lighter and stronger, than cedar shingle. This is because my shingle saves many dollars for labor cost in laying. My shingle needs no paint. Once this cost advantage did not exist. But now-a-days labor cost of laying is very high. Wood shingles are of poorer quality and advanced cost. All told, my roof on the barn itself is the utmost value your money can buyis to-day's most economical roof."
"A barn built without my shingle is going to cost you more in actual dollars to-day, and next year, and every year, than you need to spend. It is going to be a leaky barn sooner or later. You will pay higher fire insurance. You will take bigger fire risk. You will either pay out money for roof repairs, or see your hay and grain
metal will stop these troubles from the beginning. It will give service for one hundred years. Besides, you actually pay roof laid and painted properly."
"But that is not all in lowering barn cost. The time has come to stop using lumber sidewalls. Labor and lumber is too expensive. Use my galvanized, corrugated iron for the walls. It is fireproof and strong. It is applied swiftly in 8 -ft. sheets, saving days and days of wages. Besides cutting out painting, every sheet of my iron in a brace, that strengthens your barn framing against sagging and wind pressure. A barn with my shingle and my sidewalls in metal costs less than the same barn with cedar shingles or roll roofing and lumber walls, when you figure in labor and paint. Use my corrugated iron for your barn walls, and my metal shingle for your roof-save money, get a lightningproof barn, and get a longer-lasting barn than any other way."
"Write my nearest office about your new barn or remodelling your present barn. Tell us the dimensions. We will tell you what in labor and paint."
"Send them a ietter to-day. I now have two sizes of metal shingle for you. My big shingle, the 'George,' is 24 区 24 inches. My 'Oshawa' is $16 \pm 20$ inches. According to the size of your barn, we will tell you the right shingle to use. "square". your roof and its shape determines the size needed. My corrugated iron goes with either shingle."

"TJHY not have my little book? It shows how a barn is built with my shingle and corrugated iron siding. It is a straight talk about making a better barn at less A post-card will bring it. My nearest branch will send you this book free. I have just written it. It is my personal message
to you." $\qquad$ 7. Focten to you.
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[^0]:    We want agents in a few unrepresented districto.

