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INVENTIONS


Vol. XI,VII.

## EDITORIAL.

Alberta cattle are expected at Chicago this year, in the face of a $27 \frac{1}{2}$-per-cent. tariff.

Onward the silo continues its irresistible sweep he day is now not far distant when silos in barns.

An immense crop of oats seems to be maturing the continent over. There is no safer and no better grain feed. Oats, corn and clover make a great combination
leading authority in the New England shoe trade is quoted as saying that in a little over four years the growth of the automobile industry cent. This is another bright spot in the horoscope of the cattleman.

Dairying and the production of canning-factory crops like peas and corn have been found a moneymaking combination in Prince Edward, in Elgin, ensiled sweet-corii stalks from which thirty dollars' worth of ears per acre have been sold, make economical cattle feed.
Present indications point to an abundant har vest, and the stoutness of the straw insures a more comfortable bed for the live stock than that
which served them last winter. In a year plenty the straw is not often valued high enough by the growers. It takes a year like 1911 to convince people of its importance.

Free house, garden, milk, fruit, and, in some cases, fuel, constitute a much-appreciated addiwhich nearly always represents more to him than it costs the employer. The plan has the further merit of improving the home life of both parties, and often secures an extra hand to milk.

The calf slaughter still goes on, and the consumer complains of dear beef. The cattle-feeder smaller scale because of the scarcity of stockers. Feeding cattle and finished beef must continue to be scarce and high in price, unless something is done to put an end to the unwarranted slaughter
of the calves.

Already we read of a scarcity of labor in the
West, and the need of thousands of men to har West, and the need of thousands of men to har-
vest inces need not go West in search of work. There is plenty to do, at a good wage, at home. A big crop is being taken off here, and labor is scarce.
Financially, after deducting expenses, the man who Financially, after deducting expenses, the man who
stays in the East will be the best off.

Silos have become all but universal in Oxford and East Elgin Counties. In two days' drive we met only two or three farmers without them. One
of those is likely to build before long; the others of those is likely to build before long; the others
are operating on a very small scale. Many have two silos, and some three or four. One man, with three hundred acres, had four, $20 \times 42$ feet, $15 \times 42 \mathrm{ft.} ,16 \times 40 \mathrm{ft}$., and a small one $15 \times 30$
ft. Fourteen by forty and sixtcen by forty are it. Fourteen by forty and sixteen by forty are
very-day sizes in Oxford.

LONDON, ONTARIO, AUGUST 1, 1912
Sprinkled over Eastern Canada may be found exceptionally good farmers who have made ten, awenty and forty thousand dollars at dairying and hog-raising, fruit-growing or mixed husbandry, and better opportunities than they had are still ofen. In the West, such examples would be blazoned forth in immigration literature, written indie papers, and heralded far and wide to East needs icsources of the country. What the Fast needs is self-discovery through advertising.
The Grand Trunk management announces that more than eight thousand heads of Ontario famisettled along its line in Manitoba, Saskatchewan and Alluerta. It may be good business for the Girand Trunk to subtract from the East in order to build up the West, but where will Ontario get belt States to stem the Northward of the corntheir people.
It is false economy to do without things which can be made earn a very large interest on the insaving devices now employed on up-to-date farms are profitable investments, but in their installa tion, as well as in the purchase of everything quired for the farm, even hired labor aw is not always the best guide. Very often, the highest-priced machine, implement or man is the most profitable in the long run.

The hay crops are harvested, and some of th early fields of grain are in the barn. Now is the who commences to soon as the present crop is harvested is the on most likely to reap the largest yields. There is seeds and to hold moisture during therable wee seeds and to hold moisture during the dry season lightly, thorm a plow soon as the crop is of the unseeded crain stubbe One of the most satisfactory observations of a recent trip through Oxford County was the extent to which dairymen have adopted the plan of milking at five o'clock. Five a. m. and five p.m seems to be the rule. This divides the day even ly for the cows, and winds everything up in time for supper between six and seven p. m. The day has gone by when men would stay ten hours in a business part of the of dairying regards milking as ing reduction in the and expects a correspondAnd what is for forman the master: A definite quitting hour is best all round.
That public school education in America has been made altogether too bookish, too academic and too little in touch with the practical realquently experienced by the majority of pupils in a community where the masses as well as the classes are schooled, is commencing to dawn upa class, slashing arment A chool sustom sent issue of the Ladies' Home Journal, the writer, in her impatience, going so far as to call an absolute failure, complaining that it fails fit girls for household duties or boys for pro-

What Shall I Do with My Milk? What shall I do with my milk? This question, recently discussed in "The Farmer's Advocate" by Prof. Dean, is with many dairymen one of the live problems of the hour. Four main lines of dairying are opell to various readers this paper.

Home buttermaking
2. Selling the milk outright to condensary or for retail trade.
4. Patronizing the cheese factory. ing a sweet-cream trade
With a very few exceptions, home dairying is out of the question in communities where co-operative facilities exist. To spend ten hours a week churning, working and marketing five or ten dollars' worth of butter, which might have been made at the creamery, is not good business, as anyone would find who had to hire the work done at current wages. As a rule, the creamery will pay neariy as much cash as can be obtained trouble is avole. and
.
Selling the milk outright has been attractive to many, because of the ample cash returns, these or creamery checks sary at Aylmer paid, for the year ending March 1912, an average price of $\$ 1.28+$ per cwt running from $\$ 1.55$ for the four winter months, down to $\$ 1.00$ for June and July of this year. The milk-powder factory at Brownsville has paid similar prices, but increased during July to $\$ 1.05$ or the first half and $\$ 1.15$ for the latter half with $\$ 1.20$ promised for August. The conditions demanded are not very onerous, once the neces sary facilities have been provided. In brief, they are quick cooling and cleanliness. Cans are washed at the condensary, but the patrons haul heir own milk, many of them co-operating with each other, taking turn about. Where one lacks cooler and has to use cold water, or even ice takes quite a while to lower the temperature 50 degrees, and the delay cuts inta for noon's work
For city trade, much the same conditions ob ain. Take London as an example. Wholesale prices here last year were lower than at most months and $\$ 1.40$ for winter. Some purveyor paid more but these, as a rule, insisted on pretty regular supply, which is one of the most expensive and troublesome conditions the producer has to meet, frequently entailing the purchase of cows and feed on scant markets, and at othe times leaving a surplus of milk to be fed to pigs churned into a dab of butter
That sale of milk leaves no by-product for hog-feeding, is accepted by many with complac ence, thanks in part to the irregularity of the pork marke and a current belief that packers dave not given farmers a square deal. One con densary patron declared to us that he would not was no good, anyway. He has tested it cans. It feeding a bunch or pigs did nothing hand, one of the other County says his farm shows the effect since th hog-manure supuly has feeding practically everything he raises and buy ing some grain besides for his cows.

Chemistry throws light on this subject. One
the Farmers Advocate and Home magazine THE LEADING AGRICULTURAL JOURNAL IN THE DOMTNION.

pUBLISHED WEERLY bY

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JoHn weld, manager.
Agents for
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## ADVocate Thureday.





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ddress - THE FARMER'S ADVOCATE, or
THE William weld company (Limited),
London, Canada.
thousand pounds of average whole milk contains 5.8 pounds nitrogen, 1.9 pounds phosphoric acid,
and 1.7 pounds potash. Suppose a herd of and 1.7 pounds potash. Suppose a herd of
twenty cows, producing one hundred and twenty $t$ wenty cows, producing one hundred and twenty
thousand pounds of milk a year. This would contain 696 pounds nitrogen, worth, at commercialtain 696 pounds nitrogen, worth, at commercial
fertilizer prices, $\$ 125.28 ; 228$ lbs. phosphoric acid $\$ 10.20$, or a total of $\$ 149.16$ worth of plant food -practically a hundred and fifty dollars' worth. plant food is nitrogen, which the growth of legumes and purchase of grain would partially, if not wholiy, restore, it should be possible to keep up and probably increase the productivity of a
farm while selling milk, if the land has a good farm while selling milk, if the land has a good
bottom to begin with. But fertility will not increase so fast as if feeding whey or skim milk hogs, and carefully applying the hog manure. That
dairymen may be found in the finest sections Oxford County buying fertilizers, and convinced that it pays, proves that the chemist's calculation fertility become increasingly evident with time.

Now comes the cheese business, Cheese, with hogs as a side-line, has been the making of many
of the finest farming sections of Canada, and, while cash returns have seldom run so high as from the sale of milk, they have been fairly steady, while production of milk for the factory, leaving
the cans un the milk-stand each morning for a the cans on the milk-stand each morning for a
hured hauler, entails a minimum of labor and expease. Cheese dairying interferes comparatively little with the routine of farm work. Moreover,
the multiplying demands for milk for city trade, the multiplying demands for milk for city trade,
for condensing, and so on, are tending to restrict the make of cheese, and thus raise prices. This year, sales for April, May, June and July have
netted patrons rather better than a dollar per netted patrons rather better than a dollar per
hundredweight of milk. In addition, they have
at 10 cents per cwt. Reverting to our suppositi-
at 10 cents per cwt. Reverting to our suppositi-
tous example, suppose the hundred and twenty thousand pounds milk from twenty cows all went o the cheese factory-it doesn $t$, because comparison, suppose it did-this would yield one hundred and eight thousand pounds of whey, worth $\$ 108.00$ for feeding. Even from a fertilizer point of view, this whey would contain approximately, according to Henry, 108 pounds nitrogen, worth $\$ 19.44$; 118 pounds phosphoric acid, worth $\$ 7.08$, and 216 pounds potash, worth $\$ 10.80$, or a total of $\$ 37.32$. The large difference in fertilizing value between the whole milk and whey is principally represented by the nitrogen in the casein, which, along with fat, constitutes the bulk of the cheese. Near the Brownsville milk-powder pisnt is a cheese factory, and the salesman, Alex.
ton, gave us these figures from his own business He has 100 acres of land, on which he grows corn cows, his cash proceeds for milk during 1911 amounted to $\$ 1,109.17$. In addition, he runs off each year about forty hogs, purchased as suck
ers, and sells three or four hundred bushels of ers, and sells three or work with the help of a
wheat. He does the work married men living on the place, and the condition of his farm may be judged from the fact that his average yield of fall wheat is 35 bushels per acre There is permanency and satisfaction in a system of dairying like that, with less onerous labor than where enough cows are kept to consume all the produce of the farm. It is more interesting and leas binding, even if not always quite so re munerative. We notice that the man who goes carry usually gets tired of the business after a while, and wants to sell out and quit.

Perhaps least remunerative in direct returns, but in many respects one of the soundest and best iives of dairying to follow, is the sale of cream-
sweet cream, at sweet-cream prices where that is possible, but otherwise patronizing a butter-factory. As Prof. Dean says, selling cream "means
more and better live stock, more fertility more and better live stock, more fertility retained
on the farm, and, to a man on a worn-out or wearing-out farm, this is no small matter to con sider. A ton of butter-fat removes from the
soil scarcely a cent's worth of fertility, and when a rich cream is skimmed, the removal of fertility nine-tenths of the plańt food in the whole milk is retained on the farm to be fed to young stock which in turn void a goodly percentage of the fertilizing constituents as manure.
Gee hoing back to our hypothetical example, let us sespect to the removal of fertility
Sule of whole milk, 120,000 lbs., removes. \$149.16 Sending to cheese factory 120,000 lbs., re-
moves $\$ 149.16-\$ 37.32=\ldots \ldots \ldots . .111 .84$ Selling cream from 120,000 lbs. removes \$149.16-\$134.24
Skim milk, however, like whey, when rightl used, has a much greater value as feed than as it is almost indispensable. If a farmer wishes build up a high-class herd of cows, or, again, if he wishes to raise steers, skim milk has a value and hors, it also to estimate. For colts, poultry Look for thrifty stock on a farm where skim milk abounds. Considering prices of other feed, 25 warm, sweet separator milk, and, in reaconabl quantities it can casily be made worth much more and difficulty in buying good cows, shrows price men need hardly be reminded of the wisdom breeding their own heifers, and some for sale, as well. It makes a more interesting, less laborious and usuant mone prontable system of farming ficing the discar and going out with hard cash tutes. So there is a great deal more to this subject
velop a permanently profitable and satisfyi! systen of farming, to conserve fertility and solve the labor problem, by eliminating the drus
he place week in and week out

Perhaps we may conclude by endorsing an opin Dairy products are bound to rise in value. The is no getting away from it. Expanding demare advancing wages, and opportunities open to farm ers in other lines, all taken in conjunction with the inherent nutritive value of milk, will con tribute to this end. Dairying is an excellent line or the young farmer to adopt in moderation. Aim at quality of product. Keep a few cows culls ; they wear the heart out of a man, withou putting him ahead

## An Eproneous Theory.

The American theory of protection is that the measure of the customs duties should be fixed by the difference between the cost of producing an producing the same article in foreign and peting countries. The part that protection plays in enhancing the cost of domestic manufacture is ingenuously overlooked. Manifestly, a country that imports anything must pay for its im ports with exports. The exports being sold in foreign markets, probably in the face of duties must have been produced at a cost which would admit of competition with similar products from the country where they are produced cheaply as which. Plaply, the basic industies of a country tected by import duties in any larce way (unles combined in gigantic organization to eliminate competition in the home market, and maintain prices artificially there above the level of the ex portable surplus)
But the protection of secondary industries, by duction some things dear, raises the cost of pro in ineeting competition in export markets. Except as in the case of a young nation desiring to develop cities and provide reasonable diversity of s ployment, high protection, as an ultimate policy the industries for which country is specially adapted, in order to develop others for which it is less fitted, and which are, accordingly, less proftable. It thus entairs an economic loss. It is just possible that a very small revenue tariff, say 5 or 10 per cent., might prove of advantage policy int olicy is anpensive burden
Undoubledy, a chief source of erroneous argument both in the United States and Canada is community has been looked upon as a stable
factor which would go on producing, whether or no. The fact that agricultural output could be ivinid by enhancing the cost of the farmer's hving, labor and implements, was innocently tailed, until Nevertheless, it has been so cur still pre-eminently an agricultural country, is actually importing largely of some staple food prod ucts. So the high cost of living across the line s to some extent a reactive result of a system aric policy of strangling agriculture to build up urbau industry. In its final outcome, it is not but a cry bad thing for the individual farmer, Lifling hat large. Liry
"Foot-and-mouth" vs. Trade.
some idea of the alarming consequences of the recent outbreak of foot-and-mouth disease near retpool, Eng., where contagion was carried from Freat Brita be inferred from the extent to which inished Irish cattle, sheep and cattle and other stock. are annually exported to England. From Dublin alone, between 6,000 and 7,000 cattle are ship3,000 from Belfast, and about 5.000 from Cork

AUGUST 1, 1912
THE FARMER'S ADVOCATE
from other parts. Suddenly all the tralle wa stopped, narkets ciosed, and suspected areas loss. Such stoppage of suppies from one quar ter would necessarily stimulate the demand and probably raise prices of stock and meats from other soacs, shere howeverl anrada and the United States, where, however, supplies are al-

## HORSES.

Wayne Dinsmore, Secretary of the Percheron
Society of America, says that 203 horses of that Society of America, says that 203 horses of that
breed have been sold into Canada from the United breed have been Jan. 1st and July 8th, 1912 .

The new Stallion Enrollment Law for the
Province of Ontario takes effect Province of Ontario takes effect frow for the
(Aug. 1st) of the present issue of "o The (Aug. 1st), of the present issue of "The Farmer's
Advocate." Hereafter, all stallions kept, offered or travelled for service must be enrolled, and pay the $\$ 2.00$ fee annually.
-
The city demands the mature horse. This is no odstacle, the colts and young horses will do the farm work just as well as the more mature animals, and at the same time they are increasing

Crowded city streets mean slower traffic, and, as there is an increasing amount of dray work
to he done, larger loads must be taken to make up for the slower speed. This is a good reason why the horse-dealer wants the heaviest type of
drafter. The horse which is able to move the drafter. The horse which is able to move the
biggest load is of most value to the city trade.

A pair of twin colts being successfully raised by hand were observed recently by an editor of
this paper on the farm of Emerson Elliott, in this paper on the farm of Emerson Elliott, in
South Oxford. The dam, aged 22 years, died South Oxford. The dam, aged 22 years, died
when the foals were three weeks old. The young sters, however, fell upon the good care of Mrs
Elliott, and promised to make a team of usefu

Although the breeding season is now over, there are many mares in the country which coul late colts do not always make as good growth the first summer as earlier ffals, by the time they reach a marketable age little difference in size is noticeable, and the late foal gives an oppor tunity of working the mare through the spring
rush, which is often cut off when the early colt arrives in the midst of seeding.

Educate the colt. Sometimes attempts are made to teach the colt beyond its capacity, hut more often, on the average farm, his education is
neglected or put off so late as to make the work neglected or put off so late as to make the work
of "breaking," much more strenuous, and at the same time the risk of the colt's usefulness being permanently impaired is much greater. Teach the sucking foal to lead. Handle his feet. Teach give him a broad education while very young but the point is to teach thoroughly every little part with which you wish the colt to become ra

With the thousands of auto-trucks which are used for transportation of heavy loads on our yearly, it would seem as though the draft horse would soon be of sraall consequence as far as
city traffic is concerned. Demand for the right city traffic is concerned. Demand prices paid for class of drafters, and the high prices paid for
them are, however, sufficient proof that the rapid ly-growing needs of a continuous, sure and ef ficient means of transportation by heavy dray cannot be met without the use of the horse.
are many places where the horse goes that the has his pannot travel. The good horse stide hreedors place, and will continue to hoar as to the breeders need have no immedia

Belgians and Phosphates.
The Belgian horse, according to the Live-stock Journal, is bred in eight provinces of Belgium but in general, the finest specimens are prodince
and the industry flourishes most in the Province of Brabant (from which the term Brabanconne is derived), practically the whole of Hainut amur
those parts of the Provinces of Liege and Namur ving on the left bank of the Meuse. These provinces are rich in alluvial soils, and belong to
the same geological formation. The fertility of
cipitation are all conducive to an intensive system quantity of hay and oats, regardless of the differ i i agriculture, and not the least potent factor in ence in size. Some valuable experiments were gian is account of the superb frame of the Belphosphates contained in the soils of these dis tricts. According to Leyder, Belgian agriculture Fonsumes 16 pounds, German agriculture 8 pounds agriculture 5 are about 6 pounds, and English To continue profitably an intensive system per acre riculture involves liberal supplies of manure, and the most practical and economical means of ob-

The Amount of Feed for the Work Horse. arried on by the 11 inois Agricultural Experimen Station some time ago, in which a great variet the weights of the horse, the amount of food consumed, and the amount of work done. A num ber of farm work teams were employed in the ex periment, and they were at hard labor daily. The every day, from one and one-fifth to one and one third pounds of grain, and from one to one and one-fourth pouflds of hay for every hundred pounds of live weight per day were required in order to
maintain the body weight of the animal, and at maintain the body weight of the animal, and at the same time produce energy enough wo do at this Difierent individual horses require different rate, require from 14 2-5 to 16 pounds of oats or
aniounts of feed to keep them in good condition other grain, and from 12 to 15 pounds of hay in good heart for their work Nard and


The Dunure (16839).
Clydesdale stallion; brown; foaled May, 1910. Champion Royal Show, 1912

tule can be laid down fll the horn to goeding animals comprising a team have exactly the same capacity for the digestion and assimilation of rood. is necessary for the breeder to study each animal under his care, in order that the
best use may be made of the feed allowed. While no definite rule can be adopted, a general quantity by weight, compared with the weight of the hation, to be changed from time to time until the is found to be rightly adjusted for each individual anmal. It is common practice on the farm to feed the horses three times daily, and on many
farms cach and every horse at work gets the same
 are again put to
work, when it may again be increased This prevents at
tacks of azoturia The ration for the idle horse may very profitably be made more bulky than The hay ration for the hard-worked horse should never be too heavy. That is, he should never be permitted to gorge himself with this coarse feed, it being far better to feed
more concentrates, and thus facilitate digestion more concentrates, and thus facilitate digestion. grain may be made, and, when the horses are at very hard labor, a further slight saving was noticeable when fed ground grain. The profit of grinding horse s feed depends very largely upon the condition of their teeth and the facilities for getting it ground.

The Impoptance of Feed. The horse of the present day is not the result ing, sheltering, handling and caring for the breeding stock must have exerted an influence upon the horse during the past centuries. if the highly-organized, well-fed, warmly-stabled brauty
of the present day, no matter whether he be of the present day, no matter whether he be
heavy-draiter, carriage or race-horse type, be heary-drartor, carriage or race-horse type, be and poor or no shelter whatever, how quick wili a change toward the primitive types be noticed
Weight, smoothness, usefulness and beauty, de manded and admired in the twentieth-century horse, are the result of good breeding coming from
careful selection, accompanied by abundant feeding careful selection, accompanied by abundant feeding reached maturity. Good feeding is, then, just as essential as good breading.
The one time when good feeding is necessary
when the horse is young. The colt inherits a is when the horse is young. The colt inherits a
predispbsition to great weight, to speed, ( $r$ to predispbsition to great weight, to speed, ir to
high-stepping qualities, as the case may be, but
these cannot be developed without feeding gnd these cannot be developed without feeding ond good care, especially while the colt is growing.
Seeking to economize, many men think that the colt, not having to do any considerable amount of work, and none at all during the first two winters, requires nothing more than straw or poor
quality hay for feed, and no other shelter than the straw stack, often situated in an exposed barnyard. Colts. under such conditions, while sometimes appearing to thrive well, cannot peswell fed, and the result of the poor feeding and care must assert itself some time, which it usual y does before the horse reaches maturity, in a the top price on the market. They may mand tened up and made to appear larger than they really are, but such fat is easily worked of them when the colt is sucking his dam which is put on when the colt, is sucking his dam and is қradual-
ly added to after he is weaned, up to the time he is mature and goes to work. Fat and weight built up in this manner are lasting. Present-day oolts cannot "rough it," at a profit to their
owners. They must be fed well at all times. Per eeding means failure; good feeding. success. At present prices, colts pay well for the feed consumed, and a little grain and good hay, with a omfortable stable and plenty of bedding, should

## LIVE STOCK

## Finish the Cattle

extra-good cattle were on the market." These argest markets rue that the bulk of our cattle are marketed in there is a scarcity of really high-class cattle cause, butchers and exporters. Many cattle go on the market before they are fat enough to command
top prices. Such cattle are not as profitable to top prices. Such cattle are not as profitable to and placed on the market in a condition finis mand the top price. There is often a difference of two cents per pound live weight between choice
aud medium grades, and up to four cents between he best and common grades tour cents between medium grade steer is usually just in a condition o go ahead and make rapid gains when he is ver price he the feeder well to finish him? From two to four cents per pound on the carcass is not to be despised. This increase not only counts on the
increased weight, but also on the weight of the entire carcass. The finished animal is in demand and commands the price, whereas the inferior class of cattle are not so readily disposed of, and the price offered must be accepted. The man who
seeks to sell unfinished cattle is to a certain do gree at the mercy of the drover or dealer. It

The Time to Purchase Ewes.

## considered by J. B. Spencer, author of ". Sheep Husbandry in Canada," to be August, just after

 Husbandry in Canada," to be August, just afterthe lambs have been weaned. The ewes can be purchased then as cheaply as at any time, and the
best selection, if choosing ewes that have raised lambs, may be made, as their milking qualities and strength can be ascertained. Besides, pur-
chasing at this season gives plenty of time to prepare for next year's lamb crop.
While there is one additional year's usefulness in a shearling eve, one that is sixteen or seven-
teen months old, if she has not had a lamb. still. as a rule, two-shear ewes are to be preferred in
selecting breeding stock. Selecting at this age, one has a guarantee that they are breeders, and
also has the advantage of being able to judge
those likely to be the best breedors and best milkers. However, very few shearling ewes prove the stubble fields, not sown to clover, or old pastures until about the middle of September, and
then given access to a rape or clover field. If this green food is not plentiful, it will pay to feed a small quantity of grain, to insure the ewes being strong and thriving when bred. This is the secret of having a large percentage of twins
dropped. It may be well, as claimed by coine dropped. It nuay be well, as claimed by some,
to breed from ewes themselves twins; but even so, they must be strong and thriving well to have the best results, because not only will larger remore result, but the lambs will be stronger and treatment of the ewes continues good up to lambNature and History of Foot-andmouth Disease.
affected the live-stock world as the late outbreal affected the live-stock world as the late outbreak
of foot-and-mouth disease in Great Britain and Ireland. Though happily free from its ravage fer so long a period, Canada is intensively concerned in the situation created, not only because
of its effect upon trade, but because of the peril of its elfect upon trade, but because of the peril
arising from the extremely contagious nature of the ailment, which is otherwise known as Aph
thous Fever, Epizootic Aphtha, and Exzema Fpi thous Fever, Epizootic Aphtha, and Exzema Fpi
zootica. It is a virulent, contagious and inocul zootica. It is a virulent, contagious and inocul
able malady of animals, characterized by initial fever, followed by the formation of vesicles


Two-shear Shropshire Ran
blisters on the tongue, palate and lips, sometimes cattle, and on parts of the body where the of is thin, as on the udder and teats, between the
claws, on the heels, coronet and pastern disease begins suddenly and spreads very rapidly A rise of temperature precedes the vesicular erup tion, which is accompanied by salivation and a peculiar "smacking" of the lips. The vesicles a red, raw patch, which is very sensitive. The animal cannot fied so well as usual, suffers much pain and inconvenience, loses condition, and, if a
milk-yielding creature, gives less milk: ar if, nant, may abort. More or less lameness is a very much diseased, and the animal is so crippled that it has to be destroyed. It is often fatal to young animals. It is transmitted by the saliva the secretions and fexcretions are doubtless infec-
tive, as well as all articlos tive, as well as all articles and places soiled by the saliva, or the lymph of the vesicles, into the If we were to judge, observes a writer in the new Fncyclopacdia 13 ritannica, by the somewhat
vague descriptions of different disorder ser and lioman writers, this disease ters by Greek
 is not unn il we reach the 17 Th and 18 th ce, and it
that we find
 the 19 h cont awing to the rastly extended
used. In the Old World its effects are now ex
perienced from the Caspian Sea to the Atlantio Ocean. Hungary, Lower Austria, Bohemia, Sax ony and Prussia were invaded in 1834. Cattle
in the vosges and in Switzerland were attacked in 1837, and the disease, extending to France Belgium and Holland, reached England in 1839, and quickly spread over the three Kingdoms. animals into England was prohibited, and it was supposed that the infection must have been introduced by surplus stores, probably sheep which had not been consumed durlowed at intervals by eleven outbreaks, and since 1902 Great Britain has been free of foot-andmouth disease. From the observations of the best authorities, it would appear to be an alto-
gether exotic malady in the west of Europe, wether invading it from the east; at least, this has been the course noted in a 1 the princiapl invasions. It was introduced into Denmark in 1841, an
the United States of America in 1870 from Canada, where it had been carried by diseased cattle from England. It rapidly extended through cattle traffic from the State first invaded to ad aiming States, but was eventualy extinguished, America. It was twice introduced into Australia in 1872, but was stamped out on each occasion It appears to be well known in India, Ceylon, Burma and the Straits Settlements. In 1870 it tle innorted from Calcutta, where it was then prevaiiing, and in the same year it appeared in South America. In
South Africa it is South Africa it is
frequently epizootic, causing great inconvenience, ${ }_{2}$ owing to the bullocks used for draft purposes becoming
unfit for work. unfit for work.
These cattle also spread the contagion. It is not
improbable that it also prevails in
Central Africa, as schweinfurth alludes to the cattle of the Dinkas suf-
iering from a disiering from a dis-
ease of the kind. Thcugh
usually
a ot
fatal usually a fatal
malady, except in malady, except in
very young ani-
mals, or when mals, or when
malignant, yet it
is a most serious is a most serious
scourge. In one
year (1892), in $\begin{array}{ll}\text { year (1892), } & \text { in } \\ \text { Germany, } & \text { it } \\ \text { at- } \\ \text { tacked } & 150,929\end{array}$ facked, with a
farms.
estimated loss to the owners
$£ 7,500,000$ $£ 7,500,000$ ste
ling. It is tran missible to nearly all domestic animals, but sheep, goats and swine. Human beings are also liabie to infection. The treatment of afringes, and the application of antiseptics and asringents to the sores. The preventive measure mals, boiling the misolation of the diseased anidisinfection of all places and substances which are apable of conveying the infection, together with
the deep burying or burning of diseased carcasses

Secure the Flock Header
There are several good reasons why the stock this yhear ofters melected early in any season, but there are quite a number of rams of the various hreeds imported irom the Old Country, and this
heips to supply the demand for sire to be used as demand for the best types of ing to a serious outbreak of foot-and-mouth dishas been placed on sheep entering Canada from
the home land. Just at this season, this at great loss to breeders and sheep importers is At the present time, the Federal Government is putting forth every effort to encourage sheep-
breeding in Canada. Of course, the use of furehred rams is advocated, and many of these are
being purchased for the purpose of encourater the industr. Reports all indicate an a wakening
in ('anada's sheep industr: and the best whe of purc-bred rams are likely to and the best type of
this fall.

[^1] to avoid being forced to use a lamb, an early choice win se necesse stock, and the first buyer to
or inand sonie choice
make a selfetion, provided he is a mood judloo cures the best sire, and nothing but the best is

A Retrospect of Foot-and-mouth in Canada
Fortunately, Canada has not at any time ex
perienced a typical outbreak of foot-and-mouth perienced a typical outbreak of foot-and-mouth
disease. Although it was supposed to have disease. Although it was supposed to have been
observed in 1870 and 1875 , there are no particu-
lars on record officially with reference to these lars on record officially with reference to these
suspected outbreaks; in fact, the Hon. C. Dunkin and the Hon. L. Letellier, the Ministers of Agriculture for those years, stated in their re-
ports that Canadian cattle were free from any epizootic disease
On May 4th.
On May 4th, 1884 , foot-and-mouth disease was discovered on board the $S$. S. Mississippi. The
disease was of a mild form, and the stock, upon being landed at Quebec, were isolated in quarantine station, and all possible measures taken for and ninety-three animals were landed, fifteen of which were exhibiting symptoms of this disease,
and tifty-seven others contracted the malady while in quarantine. There is no record of any deaths
or of the origin of these animals. On June 3rd of that year, the S. S. Oxenholme arrived at this port with 106 cattle on board, 11 and-mouth disease, and 15 or 16 others showing
evidence of having had the malady recently. There evidence of having had the malady recently. There is no record of any deaths, neither can we find
any further particulars. It is quite evident, however, that very prompt measures were taken, which were very successful in eradicating the disease, as well as limiting it to the quarantine
station. As these animals were undergoing the usual quarantine, and were, therefore, foreign
stock, this outbreak cannot be fairly credited to Canada.
Regarding the fact that, while this disease is resulted in an epizootic in Canada, competent authorities say that, in view of the indisputable evidence of its extremely infectious nature, it is possible that the varticular suspected outbreaks was of very low order, and under unfavorable conditions became extinct. No other explanation can be given, provided the outbreaks referred to were ac-
tually due to infectious foot-and-mouth disease tually due to infectious foot-and-mouth disease.
There is every reason to suppose that foot-and mouth disease would spread with amazing rapidity, throughout this country if a virulent strain o organism were introduced. This disease is a peculiar one, and and extreme infectivity, litthe is known of the causative agent. The germ,
we are informed, is ultra-microscopic, and, therewe are informed, is ultra-microscopic, and, there-
fore, exceedingly minute. It passes through the

Standard Chamberland and Berkfeldt filters, Which prevent the passage of practically all bacmicroscopes. This is proven by the fact that salized water, passes through the Standard filters without losing its infectivity, as it readily pro ures the disease when inoculated into healthy The constancy with which the discharges from iseased animals cause the development of foot
nd-mouth disease in all contacts has demo trated the fact that this malady is caused by from some previous case or cases. Authoritios differ regarding the length of time the virus of this disease will remain active outside of the nertain body, but there is no doubt that, under ness for a long time. It has further been shown that animals recovering from the disease will in rect others for months, and quite frequently infect themselves.
peculiarities necessitate readily appreciate that these measures to eliminate the disease from any country, especially so when it is considered that infecings, on hay straw fodders and stable utensils, as well as on the feet of all animals, including birds. Although outbreaks of this disease are dogs, cats and even pren-looted animals, horses, dogs, cats and even pouttry may occassona
Wule the mortality from this diseas
low, the serious losses depend chiefly upon the diminution of milk secretion and shrinkage of The immunity conferred by this malady is of short duration, and animals are consequently subject to repeated attacks, unless they are properly
disposed of. disposed of.
The frequency with which foot-and-mouth discountries governed by inadequate sanitary police measures demonstrates only too clearly the very strious nature of this not very fatal malady.
A member of the editorial staff of "The Farm er's Advocate" has a very vivid recollection of what was believed to be an appearance of the sheep and hogs, in the fall of pure-bred cattie, through a purchase of sheep which were imported by an Ontario County breeder, and which appeared clared by the then principal of the was later dehary Coilege, the late Doctor Andrew Smith, to fisoot-and-mouth disease. At all events, the disease broke out on several farms in the neighwhich appeared mysterious at the time, but is evi dently characteristic, as before stated, and may b arried in many and diverse ways. The losses by dew, in these outbreaks here mentioned were very ew, not one per cent. of the animals affected, the
and thriving well afterwards. The chief symp toms were high fever, loss of appetite, sloubering eruptions of yellowd lips as well as on the feet and udder. Treatment was simple, consisting of only the application of a solution of carbolic acid on the affected parts
It has been announced that a German scientist, Professor Wilhelm Grugel, Dean of the Hygienic
Institute of the University of Rostock, has found the bacillus that causes foot-and-mouth disease, and also has serum for immunizing cattle against the dread malady. The treatment, claimed that experiments have demonstrated beyond a doubt that treatment of healthy animals is unqualifiedly successful in rendering them immune
If this immunizing animals from foot-and- mouth disease becomes a practical rom foot-andenlarge the possibilities of cattle trade it will Canada and Great Britain. Stockmen the ween over wish Professor Grugel success.

## THE FARM.

## Ventilating Root Houses.

Regarding the several inquiries re ventilation of root houses, as published in your issue of July $18 \mathrm{th}, \mathrm{I}$ would say

1. Where roots-th carrots are piled in is, turnips, mangels or it is necessary, or at least very advisable, to in troduce fresh air, in some way, at the bottom of the pile, or somewhere near the bottom, unless opportunity for the heated air at the surface to 2. Occasionally, mangels covered with earth as are sometimes found near the intake of the by soil; but, generally spéaking, freedom from earth is a condition of good keeping. Especially is this true of carrots and turnips.
2. It is a good practice to keep roots a few
inches off the floor, or at least to so pile them that a circulation of air under the heap of roots is permitted. Separation from the wall by stud 4. Our experience here would point to the than cement. 5. Fresh air should be introduced from the bottom. It will circulate up through the rote quite freely, unless there is a good deal of loose 6. The outlets for
the ceiling or in the ceiling itsil should be near controlled by traps or lids which should be easily handled irom some central point, in order to in-
sure their being looked after. 7. Such being looked after sure their' being looked after.
7 . Such a root house as described would
probably be fairly satisfactory, provided the roots: were not piled in more than seven or eight feet deep, and even in such
cases provision should be made for cases provision should be made for
ventilation. $\AA$ good plan would be to take the air in from the floor level by baving openings through the brick wall into the stable. These openings
should be subtended by small ducting passages made of lattice work, leading to the inside. Some of should be long, reaching but others side of the root house. These lat tices, boxes or conduits should be
ibout six inches square. The heated air should be allowed to escape hrough shafts extending from the ceiling to the roof, but this is im-
possible, then there should be an opening through the wall, near the eine fairly stifuctory These should ings, either in the ceiling or in the wall near the celling, should be proected by lids or dampers of some old weather.
I am not very much in favor of oot houses in barns, for the reason hat they have a tendency to make building dark, and are very sure reater ar lesser period sometime during the year. J. H. GRISDALE,

Director

## NOTHER OPINION.

would advise ventilating hafts every eight or ten feet apart, the shaft to be made one foot square
on the inside. Take four scantling
or small poles long enough to extend from the floor to the ceiling; nail strips around the poles sufthe air space.
2. The cleaner and freer from soil, the better. This point is where heating and decay first be-
gins. I would advise one ventilator to but in gins. I would advise one ventilator to be put in
quite close to where the roots drop into the root quite
3. If the earth floor is thoroughly under is, with or the concrete of coarse stone between the con crete and the earth-it would not be necessary to On the walls, if they are frost-proof the floo on the walls,
corned As far as the keeping qualities are con is the more easily kept clean.
of the root cellar, it will not be necessary top have an underground shaft
6. Outlets for the foul air should be 18 inche square, and extend from ceiling of the root house
to at least three feet above the ing, and to be placed about fifteen feet apart. Thoutlets can be controlled hy hinged doors or 7. Ventia

Ventilate similar to the Rutherford system. Have the fresh-air chambers coming in at
the bottom connected with air chambers at the bottom or on the floor, the air-chambers to be slatted one foot in the clear ; also, have extra every eight feet all through the root cellar; outlets to be 2 feet by eighteen inches, and to be placed about 12 feet apart, the outlets to extend
from the ceiling to the main barn. The outlets can be so arranged on the main floor to allow the roots, when drawn from the field, to be put through them.
(a) The Rutherford system, with floor con-
ductors in addition
(b) Size and construction all right, if in a above ventilation system is foptedg, and if th keep out frost above ground. JOHN FIXTER.

## The Needs of the Hoed Crops.

 A late spring season and exceedingly we and at the time for preparing the land searing and at the time for preparing the land for theroot crops, accompanied by cold weather and frosty nights, served to give the mangels, turnips and corn a setback from which they have not yet recovered, although the warm weather and frequent showers have been doing much toward overcoming the backward condition. Cultivation is crops growing, and if they are to be classed this autumn as good or bumper yields, frequent working is imperative. Held back as they were, they did not get the early cultivation that they should districts showers delayed these orera many hoed crops suffered. Corn has had the and the cully in making satisfactory frowth and many fields look spindly and yellow. This important crop cannot be let dwindle. It must be made the most of, and, besides taking advantage of every shower which stops haying and harvesting to work in the corn and roots, regular weekly cultivation should be resorted to in order that the setback which these crops received earlier in the season be as far as possible overcome. Stock farms tween a good and poor crop of these is the differnce between thin and fat cattle next spring,
he difference between well-filled and half-filled cans during the winter. Scanty fodder also means a smail amount of manure, and future
crops of all kinds depend more or less directly upon the supply of this material. The stock farmer can ill afford to lose part of his fodder supply. A full crop means much to him, and a short crop
proves a menace to his entire season's operations. proves a menace to his entire season's operations.
Therefore, it is necessary that he put forth every possible effort, when the elements have been against him, to overcome the loss by his own ef-
forts, the only method being a frequent and thorough stirring of the soil. The cultivator should be kept going in the corn until it gets so large
that further working is impossible. The bottom-
ing of the root crops may be hastened and the ing of the root crops may be hastened and the
size materially added to by scurling at frequent
intervals during. July and durust. Fiening the intervals during July and August. Keeping the
cultivator roing may yet insure abundant corn
fodder and full root cellars in most districts this

## Commercial Feptilizer on 8 Daipy Farm.

Buying commercial lertiizer to use on a dairy farm may seem like carrying coals to Newcastle,
but W. J. Whaley, of Oxford County, is convinced that it pays. In proof, he points to a splendid field of fall wheat, thick, even, long of straw, and with excellent heads. To this field he had applied 200 pounds per acre of a complete fertilizer, selling locally at $\$ 28.00$ a ton. He also ased it, with encouraging effects, on spring grain. fertilizer spaces in ho bald hout ing out. Mr. Whaley expects to beap a margin over and above the outlay of $\$ 280$ per acre, and finds the fertilizer also of advanta seeding. Every field of cereal crop on this 213 - acre arm is seeded down each year. The meadow is cut one year, pastured one, and then broken for corn, roots and wheat, the corn being followed by oats barley and mixed grain. A few acres of emmer were noticed in one field. Five acres were seeded to alfalia in 1911, and nine more in 1912. Four hundred rods of tile were laid in 1911, some tiling and fencing being done each year. Thirty-four Holstein-grade cows last year returned $\$ 70$ each than the cheese factory, averaging a little less rather extensive haur. Whaley has been a stock of swine, keeping only, but is reducing his whey, which hous the hogs have usually brought him per cwt. His hundred dors aix feed. A silo $20 \times 34 \mathrm{ft}$. Was nearly fill grain year with twenty acres of White-cap Dent corn
Exceptionally good facilities for cooling milk were observed on this farm. A strong-flowing well just outside the milk room fills a three-quar runs through with the best of cold water. Thi are set, being lifted out and run along under verhead metal track to a point directly above the milk wagon. The flow is so strong that water dare not be held back for fear of its forcing out around the curbing. In winter the water runs into a small
through the stable.
Mr. Whaley has two sons with agricultural-col
ge trainıng, and his farm shows evidence of terprise and thrift

## Crop Rotation for Potatoes

Crops," gives three crop, Fertilizers and
Crop rotations he considers essential for potatoes sults with potatoes for several seasons, and espe are subject when grown on the same soil they especially well after clover diseases: They a lowing rotations are given as illustrations: clover in spring, 1 year ; clover hay seeded to manure, 1 year; potatoes, 1 year timothy, 1 year ; hay, 1 year: with clover and ats or barley, i year, 1 year; potatoes, 1 year year; clover hay and green-crod with clover, 1 potatoes, 1 year; beans, 1 year. some early crop, or are put in as an early crop

## Dead Weight to Return Car.

## pulling back the horse fork sling

three-eighths-inch rope is not only dangerous incautious header off the breaks and one takes an is hard on the hands. A first-rate idea was ob
ford County, and afterwards at Ifopkins, in O
the vicinity: At each end of the mow a iope passes down one chute, while in the The draw-rope rope a wean weight, connected with the car by car back automatically after the load is pull the weight are simply reversed. It works rope and
and is woll and is well worth whilesed, Ithe works smoothly,
for feeding or for ventilation an be used

## Stook vs. Barn Threshing

Editor "'The Farmer's Adrocate
etting on whane in dling, provided the wanoccasion, which is difficult sometimes, for the quires at least four teams to keep an up-to separator going, and more men to handle the grain than on the barn floor. But I consider barn threshing has a decided advantage to the grain, it being stored in the barn for some time in the straw, the storing having a curing effect even if only for a few days, and makes less risk when stored in the bins, or even if sent at once to the market. If possible, I think it a great adits fage to have straw under cover, not only for when feeding ing is in bug in stook thresh the grain would otherwise be stored. space where no experience in cutting and storing straw ha arling were done, of course, the straw would hav possible. Cutting would stacking would be imwere wanted for mixing with chop when feeding otherwise, I do not see where it adds to the feed ing value.
The blo
help, but I amd self-feeder are great savers of grain is wasted in the straw than with the inore method of straw-carrier and hand feeding, on ac count of the indiscriminate and careless, as well feeder, and the strong draft and sueaves on the blower carrying grain out with the straw, which cannot be detected as it could when a man stood
at the straw carrier at the straw carrier.
As to the number of hands, that depends largethe grain; if grain is dry and straight it is almos impossible to get it to the machine faster than it stances grain to the machine Any thrifty farmer
order, with his bins ready to receive granary in and should see that the best qualities should be set apart for seeding purposes in bins by them-
selves. For instance have plump and more matured grain, and the very pest should always be selected for seeding pu sows. I am convinced, by experience, that, the returns will be increased to a very great extent, possibly 25 per cent.
The importance
ong before being of not letting ghould not be stand too Advantages are better grain be overlooked. while cutting and handling, and better fheeding
value of the straw value of the straw.
 leanliness and thorough tance, they are strict must obtain from the time of cooling. Cleanliness ing to delivery. Cooling implies lowering the cemperature immediately after milking to 65 de means of delivering at that. Any effectual by setting the cans in tanks employ. Some cool water. This is cheaper, but slower than or iced tor. The patron is supposed to whitewash his stable twice a year and ventilate it properly. He an undesirable flavor to the mill that will impart specificaliy barred. to the milk, turnips being The Rrownsville powder factory took in last year about fifteen million pounds of milk, but the to the price of cheese, be a little lighter, owing factors. price of cheese, labor scarcity and other were running around 33,000 weok of July the

## Condensaries and Silage.

 Condensary prejudice against silos is steadily with them. The following very reasonable clauseis the only stipulation repred which the Aylmer condensary requires in its con
tract in tract: "If the dairyman feeds requires in its conto not feed the cows until after they have bee Intiver, and also agrees to see that the milk is
delived to the factory free from any taints or
odors that Odors that might be caused by bad ensilaints of

## THE DAIRY

## Conditions of Good Milk Supply.

 iilk insiste are the conditions as to care of brownsted upon by the milk-powder factory at
## POULTRY

## Something About Geese

Editor
Raising geese has become almost a thing of the past in many parts of the country. Some
years ago nearly every farmer would have a few. but for one reason or another, real or otherwise, people have ceased raising them, till, at the presthink perhaps the chief reason for disposing them was the difficulty experienced in plucking I remember, one time, spending at least half a have had a prejudice against them ever since. four geese, properly handled, will be found quit profitable stock on any farm. A neighbor of mine has a flock which she keeps in a fair-sized yard where there is abundant pasturage and running water, and she has told me that, apart from this, they need very little attention during warm closure as protection from the weather in one end of a large, open cattle shed, and are fed twice a day. A great many people make the mistake of feeding too much grain, and, as a result, force them to lay loo early, or perhaps become too fat for breeding purposes. Silage is as good a feed as any for them, while corn and corn meal is also
good. should be a pond for them, any more than for ducks. Only an abundance of fresh drinking wa ter is necessary. A running stream is good, but in this case, while the goslings are young and tender, it will be better to pen them up with the mother goose away from the stream, as you must not allow them to become chilled. For feed, diferent breeders have different plans gives bread soaked in water at first, then scalded cracked corn, but never so much that they will lose their appetite for grass. A too heavy grain diet causes them to weaken on their legs. In modera week old. They should be confined to pens, and moved every day onto fresh grass, until
strong enough to have their liberty. It is better to set the first lot of eggs under hens, five to hen. Then the goose may be set, and, as a rule, she will cover about fifteen eggs. It is a good
plan to test out the clear eggs after they have plan to test out the clear eggs after they have average about twenty goslings in a year, and the ten pounds, so that goose-raising , if properly
handled, should be as profitable as anything in the Embden is the best, I think it generally pays Some advise plucking the feathers weeks. months, but I have been told that this is a misitem worth considering; but once a year has proved to be the best for both laying and breeding purposes, as plucking often causes the meat to be tough and stringy

## Dryness in the Poultry House.

The first essential of the poultry house is that
be dry. There is no condition, unless it. be actual starvation, according to Bulletin 132 o the lowa surely and quickly fatal to fertility and egg production than dampness in the hen house It is likely to cause an outbreak of disease, as

To secure a dry hen house, it is necessary, firs of all, to select a dry location. A gentle slope ous soil, is the ideal building spot. The ground immediately surrounding will then drain ciuickly yards are damp, evaporation is constanzly going on. Evaporation is a cooling process, so damp
vards give the hens cold and dirty feet. Cold wake dirty nests and eggs, and dirty eggs bring of prices.
Often it is not possible to have an i.teal loca , and then extra precaution must be taken. If
the moisture must be kept from getting into the tom oi the foundation and just at the outside,
tomd
and giving it proper and giving it proper outlet, will prevent the en-
trance of moisture to a large extent. The fountrance of moisture to a large extent. The foun-
dation should be high enough above grade to prevent the entrance of surface water.
Especial care needs to be taken in building the floor; its improper construction is one of the The board floor is generally dry, because of the air space below it. Because of the high cost of lumber, the tendency is toward the cement or dirt
nloor. In either case, if special precautions are not. In either case, if special precautions are

## To avoid this, the capillary attraction must

 be broken. Whether a dirt or cement floor is used material, preferably crushed rock, may be filled in If a dirt floor is desired, spread some finer material, as cinders, over the rock rial, as cinders, over the rock, and finally put six
inches of dirt on top. Many people seem to pre fer the dirt floor, but it is not nearly so sanitary as the cement floor. It requires much more labo to care for it properly. The cement floor is readily cleaned, and will soon pay for its extra
cost in the labor it saves. However, the cement will get as damp as the dirt, unless the precau tion noted above is taken to keep the moisture out. Over the crushed rock place a thickness o
two-ply roofing, and carefully seal all seams edges. Lay the grout above the roofing, and fin ish with a half-inch finishing coat.
What has proven to be a very satisfactory floo their flat side on a bed clay building blocks on plastering the whole with cement plaster. This floor is cheap, and has proved to be warm and

Single-wall houses are cheaper than doublewall houses, and this, together with the fact that
they are generally drier, commends their use.

## Pepmanent vs. Movable Poultry

 Houses.prmanent house is any house that is built
permanent foundation, while a movable house is one which is so constructed that it can ere necessarily small. They are very olony hery orr lony house but a colony house is not always movable house it may be built stationary Colony houses contain only one family or colony irds, hence the name
Both styles of houses have their advantages. The permanent house can usually be built at less cost per hen capacity. In bad weather it is hens are probably better protected from the cold and wind.
On the other hand, the movable colony house is simply made; may be moved from place to place as feed, weather and convenience suggest to move the house there is no advantage to build it movable. For the farmer or poultry man who has fairly level land, the movable house is a decided advantage

One of the troubles in keeping poultry housed in permanent houses is the difficully of keepin the land pure and sweet. With the movable house the yards can be changed at will; the poulby the poultry, instead of becoming a nuisance are a decided advantage. They help scatter fer tility over the farm, which later may be turned under for crops. Where poultry are used in combination with a fruit farm, the houses are moved along the edge of the orchard. Movable
houses may be used most advantageously with houses may be used most advantageously with ordinary farm crops, especially woung chicks are easily reared in movable houses located along the headland or in the rough part of the field. The grain forms a protection the little damage that may be done to the grain is more than compensated for by the bugs grain is more than compensated for
An added advantage in this method (the movis required to start. Only sufficient house room. to accommodate the present flock is required; additional houses may be built each year as the waste may be utilized. More advantage of the weather can be taken. In the spring the houses can he drawn into the sun, and as the weather
the hot sun.
while a permanent house requires a permanen yard, the fencing of which costs often as much as o use a system of feeding that saves labor fed by the birds have unlimited range, they can be are yarded. This method of feeding saves much abor, and can be best used in the colony system [Farm Poultry Bulletin published by Macdonald
A good for

A good flock of laying hens go far towards swelling the summer's income on a farm. A reader whose poultry business was written up in these columns a few years ago mentioned casual-
ly the other day that, since March 20th her flock y the other day that, since March 20th her flock
of seventy-five had been making her a dollar a day. That is better than milking three extra

## GARDEN 8 ORCHARD.

Insects Attacking Vegetables. - IV perimentel Farm, Ottawa.

## BLISTER BEETLES.

Complaints have been received from various parts of Canada of the prevalence of blister beetles. In eastern Canada these insects are reported done injury chiefly to potatoes, while in beans.
Blister beetles have the habit of appearing suddenly, and iny many instances much injury has been done before the farmer or gardener is aware o their presence. When they congregate in great numbers, it is only a matter of two or three days before a crop is entirely ruined. Fortunately, however, they oftentimes disappear from a 10 ality as suddenly as they came
The most regularly-occurring species is the black blister beetle. It occurs particularly in ons it is also present in large numbers in Maniobe and the other Western Provinces It Lani niform dull-black color, and in length varies or a little more than a quarter to slightly varies from half an inch. It is chiefly complained of as a poato pest, but it will also attack mangels, beets, carrots, cabbages, tomatoes, corn, beans, etc.
The ash-gray blister beetle, similar in appearnce to the black blister beetle, but of uniform ash-gray colo, is another common species in the East, especially during July. Potatoes and beans are lavorite food plants, but peas and othe解 In the Western Provinces, the Western blister beolt,", as it is also callod, Nuttall's Bliste tacks leguminous crops, particularly Windso broad beans. It is a handsome specios, and in length is from three-quarters to one inch. The wing-covers are purple, greenish, or of a coppery color. The time of the appearance of the swarms of this beetle varies. In 1910 the beetle appeared in large numbers in Saskatchewan from about the 25 th of July till the middle of August.
In British Columbia, and also in some of the other Western Provinces, the spotted blister beetle is frequently abundant. In color it is gray, or rather, the body is black, clothed with fine gray which show up as black spots. The beetle appears any time from May till the middle of Aug ust. Potatoes are particularly attacked, bu oeets, cabbages, spina In the older Provinces, where potatoes are so largely grown, little injury from the attacks of blister beetles should result if the vines are sprayed regularly with the ordinary poisoned
Bordeaux mixture (4 pounds of copper sulphate 4 pounds of fresh lime, 4 ounces of Paris green and 40 gallons of water), so widely used for fung and leai-eating insects. As is well known, blister eggs of grasshoppers. It is well, therefore, that the fariner should realize this and watch for the appearance of blister beetles in years following
excessive outbreaks of prasshoppers. Whenever excessive outbreaks of grasshoppers. Whenever
these latter insects appear in destructive numbers the now well-know Criddle mixture* should be applied. This has given excellent results, particu-
larly in Manitoba and the West.
When the grasshoppers are destroyed in this manner, the chances are, of course, that blister beetles will not be
present in numbers to do very serious damage the
following year. When spraying crops with an
arsenical mixture for the destruction of blister arsenical mixture for the destruction of blister
beetles, it is important that the mixture be plied immediately their presence is detected, on account of the voracious habits of these insects Paris green, the insecticide which has been mostly
used, can be appled either as a spray, using one used, can be appled either as a spray, using one
ounce to every ten gallons of water, to which has been added an equal quantity of freshly-slaked lime, or as a dry application mixed with from 10 to 20 parts of flour, land plaster or slaked tato will stand double the above strengths oo paris green. In some outbreaks it may be neces sary to repeat the application, as the beetles which are killed are soon replaced by others.
Blister beetles are very easily disturbed
Blister beetles are very easily disturbed, an very successiully employed is for two or three boys, or more if necessary, to walk through an
infested field and wave from side to side bough infested field and wave from side to side bough
of spruce, or other branches. Such an operation of spruce, or other branches. Such an operation
will drive the beetles ahead of them, and when the insects come to the edge of the crop they will disperse, and seldom return. This method has given excellent results in outbreaks of the Western
Blister beetle. This latter species is particularly ravenous, and is capable of destroying a crop in a very short time, even in a day, according to some reports. In such instances, of course, spray-
ing' would be of little avail. In the United States ing would be of little avail. In the United States
the beetles are often driven in the above manner into a windrow of hay or straw, which is immedialely set on fire, and thousands of the in
sects are thus destroyed. sects are thus destroye
In gardens, many of these beetles may be
killed by beating them from the plants into pans containing water with a little coal oil on the surface. If any of the species which feed on the blossoms of fruit or other trees should occur in
injurious numbers, many, no doubt, could be jarred from the trees into an inverted umbrella or other contrivance, and then put into a vessel con-
taining coal oil and water aining coal oil and water
blister beetles in feeding upon the eggs of larver of pers, it is often undesirable to destroy them, but, of course, when they occur in destructive numbers it is well that one of the above measures be taken as soon as possible for the protection of the crop. pound of Paris green with five ordinary pailfuls of horse droppings, which have been moistened pounds of salt has been dissolved. It is simply scattered among the crop which is being attacked, or along the edge of a crop towards which the

Potato Bug Destroyer in Nova Scotia.
Edy son, a few days aco, saw a small light hy son, a few days ago, saw a small light
brown beetle, square shouldered and about a wide as, but rather shorter than, the adult pota-
to bug, with its proboscis sticking into a ounr to bug, with its proboscis sticking into a youns
potato bug, and when touched it walked off with potato bug, and when touched it walked of with
the bug. The color does not tally with that of the one found by Peter McArthur, but otherwise thev appear to be similar, and the great thing is
each had its proboscis intos a potato bug when found. "What are we groing to do about it?" How can we keep the bugs in check without also destroying the beetle until the latter hecomes num-
erons onourh to control the pests?
Halifax Co. N.S.

## A Friend of Fpuit Growers.

Editor "The Farmer's Advocate"
I have been a constant reader of " The Farmfarmer's son for about ten years. I am a ideas about the little red fox in your valuable paper. I don't think he gets credit for all that he should by most farmers, who look upon him as the worst enemy they have. I don't say he won't take a chicken or a duck once in a while, but I will say the harm he does in this way is not to be compared with the good he does by killing complet and cotton-tall rabbits, which get to be oi the country, their ravages being very noticeable during last winter. A neighbor of mine had a whole orchard of young trees completely spoiled by cotton-tail rabbits, and many others had sever1 trees injured or killed. Now, in conclusion, I Would like to say that 1 know it to be a fact that ny other animal living a thin any other animal living. I think, also, it is to and not kill him at give him a chance to Gioverninent, in my opinion, should protect them from April 1st to Dec. 1st

## constant reader

Controlling Black-pot of Apples.
The black-rot canker is a well known diseas of trees in many parts of Canada. The fungus and blackened and tacked to become roughened single coler an areal tions of the limb or limbs above the infecter area, and dependent upen the limb for fool Remedies have been recommended as follows. Cutting, off or digging out and burning badly dis eased branches of trees and the prompt removal of rot-affected apples as they fall; cutting out all small to medium-sized cankers on the trunks, followed by disinfection of the wound; keeping the bark whole by preventing sunscald and injuries of all kinds; keeping the trees healthy, vigorous and clean by cultivation, care and spraying; and in some cases re-heading old trees where the upper branches are diseased and the trunk and main hranches in good condition
Troven the disease can be controlled has been Agricultural College in an orchard near Ontario Ontario, where a large number of trees were damated the disease. These trees were badl. damaged, and all showed extensive cankers ounks carefully cut out, disinfected with corrosive subi mate ( 1 in 1000 ) and painted oyer lead pain free from turpentine was first used hut this wa founcl to crack and check and thus thit wa ford complete protection, so a second coating o better protectine The coal tar was found to giv hetter protection in not cracking or blistering

The Niagara Fruit Be


The cutting out of the cankers was supplemented by lime-sulphur sprayings for the control of apple cale. Nearly all the trees treated showed rapid
recovery in one year, and no new cankers coll be found on any of the trees in the orchard. It is, therefore, guite safe to state that if the orchard is properly sprayed with lime-sulphur ior carefully cutting out the cankers on the died trees, disinfecting with corrosive sublimate ( 1 to
1000 ) and nainting over the wounds with coal 1000) and painting over the wounds with coal

## Thinning Peaches

F. M. Clement, B. S. A., now District Representative of the Department of Agriculture for Elgin county, Ontario, made extensive investigations during his final industry of the Niagara District Agricultural College. From these investigations he gives the following on thinning the crop
As yet, very few farmers have the courage quantities of fruit pulled off and thrown onto the ground, and consequently as yet, few of the growers are thiming systematically. A large number practice it a little, but it cannot be said but, tivation and manuring, because we lose the value of the past labor by not continuing the good work a little longer, and removing some of the fruit that is tending to break down the tree. In a Mr from three $f$. truit whit 555 pounds, but in thed thousand peaches and in the there were six over three thousand. peaches were almost , or, in other words, the trees that were thinned from five to sevem the we obtained 446 pounds of fruit, but they inches all exceptionally large and of an excellent qualmended, but in no case should two be recom allowed to touch each other, unless peaches be opposite sides of a fairly large twig. They col and mature much better if they do not touch each other at all. A man must use his own judgmen and if in doubt whether the fruit should be taken on or not, take it off, because in nearly every ase when the trees appear with only half a crop the early season, when large and more deoped nave all that they can bear," dere

## Celery Blight.

Celery, especially during early summer, when somewher is hot and dry, and the growth is leaf-spot This disease develops more rapidty ing sultry nights, when the air is filled with moisture. When the disease first makes its with pearance a grayish spot is noticed on the leaves, wich in a day or two changes to a brownish ar, with a burnt appearance. If the weather continues sultry, and conditions are favorable to he development of the disease, it will gradually will Niw deaves and the plant appear to be scalded heart of the plant, but to be thrown up by the it never has strength enough once badly infested overcome the disease to produce a marketable

The proper time to do the spraying for this caught in time it ma, be checked even after but if noticed, by spraying with Bordea after first spraying should commence wordeau mixture in the seed-bed, and should be continued until the weather becomes cool in the late summer ortil the fall, when the plants are growing thrifty. The main thing is to keep the plants growing well throughont the summer, as it is the weaker, attack of the disease, and from which it spreads throughout the patch. Spraying precautions than cure with this, as well as all other diseases

THE FARM BULLETIN

## Wealth and Brains

They say that Sir Jingo McBore
Is worth firty millions or more,
And he made it by slaving
And scrinaping and saving,
And selling his eggs at the store.
Canada is surely a favored country. Besides having a bracing and invigorating climate, un-
limited
natural resources, and an industrious population, we are blessed with a lot of rich men ou whon any country might well be proud. If all the time bubbling over with pleasant anec dotes about our belted knights and their public-
spirited doings, and there does not seem to be spirited doings, and there does not seem to be the youth of the country to follow. In the
United States it is so different. Their rich men "re known to be greedy and unscrupulous, and ar names for the money-devil. Their operations In the field of High Finance are exposed by the robbing the patient people are held up to execration. Our rich men apparently get rich by exer-
cising the homeiy virtues of thrift and economy and foresight, and when they put through mergers glad; and whenever a new batch of them is kighted we practice speaking their titled names f affiairs, and Canadian mothers beautiful state blamed if they tell their children about the oood deeds of Sir William This and Sir Edmund That,
and cherish the hope that their dear ones may and cherish the hope that their dear ones may
grow up to be knights, or even Lords. Wouldn't it be terrible if some bold man should ndertake to show that some of the things done and that the plain people are being robbed even
more systematically than they are in the wicked States. Perish the thought. Our rich men are all good and great, and differ from the rest of us " slicker " than we are. They are interested only heir fingers, they cannet help milions stick to way of sticking to some people. I have been told that some of our rich men cannot even go
for a walk without having lost coins stick to for a walk without having lost coins stick to
their shoes, and every time they clean off the mud they get enough stray quarters to pay for their lunches. Most of them hegan life as country boys, like the rest of us, and made their fortunes
simply by doing the same things we do on a igger scale. By that I mean such things as small potatoes in the middle of the bag, and selling balky horses to the minister, and other per ectly legitimate business transactions.

0
Sir Jingo McBore, they avow,
Had no equal at milking a cow
And he's milking the Government now.
Rrany a atternoon is a good thing, even in the
farvest time.
It gives us a chance
to
think Unings over and to meditate on the growh and
prosperity of the country. The bountiul harvest Wo are gathering in will enable us to pay
lividends on all the watered stock
on the country without feeling it-able statisticians
estimate that there is now over $\$ 600,000$,estimate that there is now over $\$ 600,000$,-
000 in existence. It will also make it posto prosper, and perhaps to force up the cost of
living a little higher, so that Canada will rank With the most expensive and civilized countries in for the existence of waterecd stock is that it it enathes a iew more people to make millions and
tuy titles, annd move in automobile society
But there have been rich men since the begining, and is so ancient and respectable. As voltaire says: "There is nothing so rospectable as a venerable
 their wealth. But there has been a change in the
mothoo of getting wealth durring the past fow



to this kind of robbery. But they no sonner did
this than cunning men saw what a powerful instrument unjust laws might be made in securing
wealth. By securing law-protected monopolies, weath. By securing law-protected monopolies, intolerable, and monopolies were aboliwed. Gov that did not give permanent relief. Another lot of rich men developed, who amassed fortunes by
evading the law. They secured monopolies by organizing business so as to stifle competition to controlling Governments through contributions the laws so that they can tax the plain people at with, and surely we khall be have to contend with them as our fathers were with the other types. The strong men and the court favorites have been put in their place, and now we must
deal with the corruptionists and promoters of deal with the corruptionists and promoters of
Big Business. It should not be so very difficult a task to a people who are enjoying the advan-
tages of popular education. But it is time we were making a beginning.

> Was honest and truthful child
> He was willing and handy,
> And never bought candy,
And see how his millions have piled

If I have been told once, I have been told a Hon of brains cant-be kept from making money. They will always find a way." And yet
1 am not convinced. While knocking around the and few of them impressed me as having any brains beyond the faculties of Pride, Greed an in statesmen and men of learning and we fin the rich men I raet might as well have, had their skulls filled with Myonnaise dressing. It does not require brains to enable a man to give a con-
tribution to a political party's campaign fund in return for lavish charters or legislation that will give special privileges. It does not require
brains to hold up a business man who is in nee of money, and make him give up a large block o with a loan of the people's money Circumstan tial stories have reached me of such things being done, and at the present it does not matter ver much whether they are true or not. It is enough Government inspection, such things are possible Fven if it has not been done, the opportunity is
there, and is a constant source of temptation. It there, and is a constant source of temptation. It
will not require very much brains to correct that state of affairs. It is undoubtedy true that by the use of brains and the exercise of the or dinary virtues, but in their big operations they have been noted chiefly for lack of conscience. If
they needed brains, they could always hire it-the "hired cunning" of the lecral profession, for inabout the opposition we shall meet from "brains"
in the coming fight for human rights. What we have to fear is cunning and unscrupulousness.

> Sir Jingo McBore making hay
Works like anyone elso, so they He fumes and he sweats,

And he fusses and frets,

## Relative Pponts of Copn and

 AlfalfaProf. W. J. Spillman, of the Department o Agriculture at Washington, D. C., gives through
Hoard's Dairyman a few interesting figure brought to light in the cost-accounting work car ried on by that Department. They have detailed
records of the labor, cost and income from 34 crops of corn. The average profit on these crops is $\$ 9.88$ per acre. The average profit on eight cropsin, $\$ 12.06$; six crops in Indiana, $\$ 9.10$; and seven crops in Now York and New England, \$2.94. falfa, mostly in New York and the North Central States. The average profit per acre on these
eleven crops is calculated as $\$ 21.79$. This is a very Sonce one team can manage as many acres of that, where alfalfa does well a man can make more, on the average, hy devoting his time to
alfalfa than he can by devoting it to corn; but two, if he has land enough, than he can from
cither alone. Suppose, for instance, he has 40 acres of alfalfa. Now, he can erow some corn in
adtiition to the alfalfa, but just how much is no known. Tet us suppose it is 25 acres. The 40
acre, gives a total profit of $\$ 840$. The 25 acres of corn at $\$ 10$ an acre gives a profit of $\$ 250$. I where under ordinary circumstances, on land from growing all the alfalfa the situation permits, and then growing all the corn in ald that can be tak
with the alfalfa

## The 1912 Winnipeg Industrial.

## Although, on account of somewhat unfavorable

 weather and cramped quarters, the Winnipeg Exhibition of 1912 was not the great success it might have been, it was easily good enough to Vest. The Canadian Industrial Fxhibition has clearly outgrown its present grounds and its present buildings, and as long as it must occupy these premises it can at the best but mark time. More suitable quarters are urgently needed. Withsuitable home, the Canadian Industrial is ena suitable home, the Canadian Industrial is en-
sured a continued expansion. As it is, the cramped and old quarters magnify every fault and inconvenience that may be apparent.

There was nothing lacking in the display from live stock and poultry to machinery and arts. In
every section it was good ; some sections were superior to last year, while some were hardly on a par with the exhibits of 1911
A feature of the exhibition was the large display of machinery. of the huge tractors breaking virgin prairie to the north-west of the city On the whole, there was little change in the numbers out in th did not make the display of a year ago, although of merit. Cattle hardly held their own, but, for quality and close competition, it is doubtful in any show has been anead the stables of Barron, of Carberry and the Van Horne Farm were missed in the Shorthorn classes. Sheep and hogs were out strong, and had their allotted space crowded with quan lost in other sections. Stockmen and farmers this year had the hon of being tendered a luncheon by Royalty. His Royal Highness the Duke of Connaught, who, wit throughout the exhibition had farmers as guest in the directors' quarters on Wednesday of the second week

HORSES
Horses, on the whole, were not out in as large numbers as in previous years. Evidence of this was given in a number of the heavarait classea ever, th judge's ability to the utmost, and the winners in the various classes invariably notchers
Clydesdales.-The Scotch breed predominated in excellent line-ups in many cases furnished some Competition was quite keen, and honors were fair y evenly distributed. In most of the classes th ers at the largest shows in Canada.
The exhibitors were : W. I. Elder, Wm. Grant Regina; J. Graham, Carberry; Carruth Brown, Portage la Prairie ; A. Graham, Pome hill ; Colquhoun \& Beattie, Brandon ; McKirdy Bros., Napinka; J. M. Webster, Cartwright; Matt iibb, Morden ; D. McLean, Frobisher, Sask.; H. Prairie; and M. C. Weightman, Morden
In aged stallions, the judge spent considerable time before making the awards. They were classy bunch, the winner bei. Fowler, on Ba third on Warlaby. Baron Sprout was the most symmetrical animal, with good quality, and was ater made reserve champio
nue must be taitions, although not out ence. Colquhoun \& Beattie secured first prize on Critic, sired by Everlasting. This horse wa cleaned uppion of the breed, and aiterward highest honors. He was a top-notcher in Grea Britain, having won first at the Royal, and, ow ing to his draftiness, his wealth and quality of one, and his extreme action, is sure to be ion. The second prize went to Wm. Elder Kirktown Squire, a typey horse, but lacking a little in action.
In the two-
n Cromear-old stallions, McKirdy Bros. He is a great quality animal, as was also the second-prize horse, Gartley's King. Andrew Graham, on an excellent bunch of
oungsters, made a clean sweep in the yearlings. In the brood mares. with foal by side, A.
iraham took first on Miss Banks, and also wa
first on foal. Matt. Gibb was a very close con- rington Asslatin, and Thos. Jasper second, with tender, and was awarded second prize for both
mare and foal. They were a line-up of good breeders.
the breed to suit the most ardent admirers of the breed was located in the yeld mares any
age. John Graham, on Border Rosie, by Hiawatha, was first, with McKirdy Bros., on Show ing, third. Border Rosie is a very drafty, quality mare, with good
serve champion fomale.
serve champion female.
In three-year-old fillies, J. Wishart took first with McKirdy Bros. second. Wm. Grant, on Lady Hopetoun, secured highest honors in the two-yearolds. She has plenty of quality, and displayed
great action for a youngster, and took the championship over all Clydesdale females. D. McLean received second place on Lady Peggy, by The Real Mackay
The yearling fillies included some good material, both for size and quality. Wm. Grant took
first on Kismet, by Cawdor Laird, with A. Graham second on Forest Lady ; Grant was also urth.
In three animals, the produce of one sire, Mc-
Kirdy Bros.. took first, with A. Graham second Kirdy Bros. took first, with A. Graham second.
The latter also obtained first prize for mare and two of her progeny.
Canadiun-bred Clydesdales.-In the aged-stal-
lion class, J. McNab took first on a very stylish horse. McKirdy Bros. secured highest honors in King. He is a roan colt, with excellent quillity and later was made champion stallion of tho Canad place in the two-year-olds on Prince incry
ond
by ond pl
by Bla
pion.
John Wishart, on Darling Bell, by Vigorous, took first in the three-year-old fillies. She is a very smooth mare, with good action. McKirdy
Pros. were awarded second place on Royal Prin cess.
n the two-year-old fillies, Wm. Grant got first prize on Lilly Lansdown, and second on Aurora
Belle. David McLean was third on Lady Pegy Lilly Lansdown was made champion in the Cana dian-bred females, with McKirdy's Show Queen reserve.
Percherons.-C'olquhoun \& Beattie, of Brandon; were the main exhibitors of Percherons, which were out in very small numbers, the aged-stallion class offering the only competition.
Nine drafty aged stallions put up a strong
fight, and the final reckoning showed Jaume right, and the final reckoning showed Jaume, by first place. He was afterwards made champion stallion of the breed, and reserve champion over don, a heavier horse, but not so second on Gasthe winner. Third prize went to T. G. Fraser, on Perdreau, and fourth to W. C. Henderson, on Morsie, both good drafty Percherons.
stallions, first in stallions two years old first in yearling stallions, and first on yeld mare, any Shires.-Only a few Shires appeared. In fact, C. Weightman was the owner and must be M. credit for having some fairly typical individuals. Belgians.-There was but one exhibitor of Bel-
gians, IV. C. Henderson. His string are gians, inch of fair-quality horses, with great weight.
bunhey were all shown in the aced-stallion class Culbuteur, a chestnut, with more quality than the others, and yet being quite drafty, was placed
first. Praul De Montignies, sired by Roys, was second.
Agriculiural Horses and Drafiers.- These classes
were filled with an unusually high standard of were filled with an unusually high standard of
horses. M. (. Weightinan secured first and second on
brood mare, and also on foal. In the three-year-
olui celldint ond old gelding or tilly class, Weightman was first on
a bay animal with considerable quality. Alex. Wm. Grant took first in the two-year-old and also in the yearling gelding or filly class. In the
latter class Weightman was second, with Steel Bros. third. Weightman was also first for yeld The heavy-draft classes hrought out some good
weighty ones. The Canadian Express Co woon first for single gelding and for team. Matt Gihb Clydesdale stallion, and McKirdy Aros... on by a
Queen, took first for mare or a gelding sired by a Clydestale.
For light-draft teams, A. Ciraham was first


Alex. Steel third. champion stallion, and Stadacona reserve.

The cattle classes, with few exceptions, made a breed, and in No one had a walk-over in any G. P. Bellows cases there was a stif fight. nipeg, place Prof. W. H. Peters, M. A. C., Winnipeg, placed Herefords and Red Polls. Mr. Bel-
lows and Prof. Peters placed Aberdeen-Angus, and W. F. Stephens, Huntindon, Que., placed dairy
breeds. Shorthorns.-The showing of Shorthorns was on a par with anything that has been seen at in for , and practically all the exhibitors came the old exhibitors were not out this year, but well; Geo. Sayer. Illino bis. J. H. Melick (a new exhibitor); J. A. Watt, of Salem, Ont.; H. L. Emmert, a local breeder; H. O. Ayearst, and A. W.
Severin, were the chief exhibitors. The bull Severin, were the chief exhibitors. The bull
classes were not so well filled as they might have been, but they lined up a grand aggregation. Aged bulls- - , Geo. J. Sayer, on Uxor Prince, last year's grand champion ; 2, Caswell, on Keir
Emblem; 3, Ayearst, on Crimson Flash. Two-year-olds-1, Watt, on Gainford Marquis, the wellknown showyard winner; 2, Caswell, on Marshal's Heir ; 3, Melick, on Mutineer. Senio
yearlings-1, Melick, on Pride of Albion. yearlings- 1 , Melick, on Pride of Albion ; 2 , Em-
mert, on Missie's Prince. This was a great fight, the thicker bull winning, although the hind-quarters of Emmert's bull outclassed those of the inner. Junior yearlings-1, Caswell, on Laven-
der Marshal ; 2, Watt, on Salem King ; 3, Emmert, on Choice Goods. Senior bull calves-1, Emmert, on Sittyton Selection; 2, Watt, on
Royal Flush; 3, Emmert, on Augusta Star; 4, Caswell, on Jilt Royal ; 4, Sayer, on Sittyt

Watt's breal ban, Gainford Marquis, in ine loom, was made senior and grand champion, and位 Aged
Watt, on Dale's Gift 2nd; 3 and 4, Melick, on Maxwalton Dorothy and Maxwalton Gloster; 5 , Caswell, on Sylvan Star 4th. Cows in milk-1, berta 8th"; 3, Caswell, on Miss Fortune ; 4, Mel ick, on Rose 2nd. Two-year-olds-1, Sayer,on Queen Mrildred; 2, Melick, on Maxwalton Gloster 3rd Anne of Oakland; 5, Orange Lady; 6, Caswell on Gloucester Sultana 2nd. Senior yearling heif ers-1, Einmert, on Princess 4th; 2, Sayer, on 2nd and Lady Mistletoe . 5, Caswell, on Thelma Stamford. Junior yearling heifers-1, Melick on Cloverdale Mildred ; 2, Emmert, on Emma of 'Oak Bluff ; 3, Sayer, on Duchess of Gloucester 78th ; Clipper's Sultana. Senior heifer calves-1, ol ick, on Clover Leaf Dorothy ; 2,3 and 4, Emmert, on Duchess of Oak Bluff,' Stanley Queen and Cry's Star 6th ; 5, Sayer, on Sittyton Lancaster. budi ; 2, Melick, on White Pearl ; 3, Ayearst, on (rimson Flirt; 4, Caswell, on Fancy Clara. Sayer's Fair championship for females went to phiaced grand champion. The junior championjudge was pleased to call one of the finest line ups one would find in any show-ring in America aminert's senior yearling Princess 4th got the award and reserve grand championship. In herd
bull and four females any age, there was one of
the clocst the closest line-ups ever seen at Winnipeg, and
there was a grand battle; four herds, each hav ing top animals, lined up. First place went to Maxwalton Gloster, Maxwalton Dorothy, Clover Secaf Iorothy and Clover T.eaf Mildred. Sayer was bull and three females, under two years. Fmmert was first, Melick second, Saver third, and Emmert
fourth. Three calves was first. Watt second, and Caswell third. Fo with three hy Avondale, Sayer second and Emas firs was first with two progeny of one cow. Melick
3,2 th, and Sayer second. In Western Gloucester 3.th, and Sayer second In Western herds, Fin-
mert was firt, Caswell second. and Ayearst third.
Fmmert was firsst in breeders' herd, and Cas-Aberdoen-Amgns.-This breed made a great the conl het ween the herds of from heginning
Branmen: James Bownum Mecregor

Balmont; 2, McGregor, on Expert of Dalmeny ; 3, Bowman, on Elm Park Wizard. Senior yea
lings-1, Battles, on Royal Eric. 2, Bowman Beauty's Prince ; 3, McGregor, on Rugby iad Junior yearlings-1, Battles, on Eileen's Lad Rosemere; 2 and 3, McGregor, on Glencarnoc
Prince and Glencarnock General. calves-1, Bowman, on Beauty's Erwin; 2, 13at-
tles on Thick Lad of Rosemere ; 3, Battles, on Proud Lad of Rosemere.

The grand championship for bulls went to Bat tes, on Balmont, in preference to
bull, Le Roy 3rd of Meadowbrook.
Aged cows-1, McGregor, on Violet 3rd gash ; 2, Bowman, on Elm Park Beauty ; 3, BatGregor, on Queen Rosie of Tulham ; 2, Battles, Mc Rose of Rosemere ; 3, McGregor, on Glencarnock Rubicon. Senior yearlings-1, Battles, on Myra Glencarnore : 2, McGregor, on Queen Mother of 2nd. Junior yearlings-1, McGregor Park Witch nock's Pretty Rose ; 2, Battles, on Barbara Rosemere 3rd ; 3, McGregor, on Eriford. Senior calves-1, Bowman, on Elm Park Pride mere ; 3, McGregor, on Black Rose of Glencar nock. Junior calves-1, Bowman. McGe grand championship for females went to after a hard fight with the senior cow, Viole
3rd of Congash, from the same herd In herd buil and four females,
Gregor was first, Battles second, and Bowman third. In herd, under two years, Battles was fles was first and Bowman second third. Bat progeny of one c
Bowman was tirst, Battles second, and McGregor third, for two calves under one year. For three, the get of one bull, Battles was first for three by Golden Gleam, and Bowman third, for three by Elm Park Ringleader
Herefords.-The display of Herefords was put up by J. A. Chapman, Hayfield, and L. O. Clifhad out stronger herds than they exhibited last year, and the sections, although not well filled, Aged bulls-1, Clifford, on Refiner yearlings-1, Chapman, on Beau Albion ; 2, ClifClifford, on Donald Lad. Senior bull calf-1 and 2, Clifford, on Bonnie Brae 45th and Elect 3rd Aunior bull calf-1, Chapman, on Roseland Chief. Aged Chapman, on Fairy Ring of Island Park and Rosemount Beauty. Two-year-olds-1 and 2 Clififord, on Miss Brae 26th and Miss Brae 23rd; lings-1, Clifford, on Miss Brae 34th: 2, Chap man, on Virgil Lass: 3, Clifford, on Miss Brae 35 th. Junior yearling-1, Clifford, on Miss Brae 18th , 2, Chapman, on Bells 2nd. Senior calfFairy Vic of Island Prae 40th; 2, Chapman, on 1 and 2, Clifford, on Amy 25th and Princess '51st; 8, Chapman, on Fairy Vic of Island Park 2nd. Brae 38th champion female of the breed.
In herd bull and four fer and third, and Chapman second. In two calves under one vear Chapman was first, and Clifford progeny of one was. In three animats two, the progeny of one cow. In three animals, the get
of one bull, Clifford was first and second, and Chapman third.
W. J. McComb made an excellent exhibit of Red Polled cattle.
DAIRY cattle
put up by P. D. McArthur, or North Georgetown the quality may be all 35 head in his string, and Won the first place for dairy herd of four cows, Holsteins.-Holsteins were not out in the strength that they were a year ago, when five
arge herds competed. This year, W. J. Cum-
mings mings, H. Hancox, Dominion City; A. B. Pot-
ter, Langbank, and Jas. Herriot, were the exAged bulls-1, Cummines on Riverview He qerval. Two-year-olds-1, Cummings, on Alcarto
Iolkadot Corrector 8th: 2 , Hancox on Sir Modt Colantha Fayne. Yearling bulls-1 and 2 , Ame, $\quad 3$. Hancox, on Colantha Sir Paladine eld: 2, Hancox, on Dairy on Glenlea Henger Fotter, on Martha's Ouillemette. Sunior calves and 2, Cummings, on Glenlea De Bell Henger
old and Clomlea De Kol Hengerveld ; 3, Hancox
"Sir Modest Rincwond leed cows-1, Cumminer on Dasy.

2, Potter. Two-year-olds-1, 2 and 4, Cummings
3, Hancox. Yearlings-1
and
2, Cummings The male championship went to the calf Glen-
lea De Bell Hengerveld, and the female lea De Belaisy Camille 2nd, the female champion In herd, bull and four females, any age, Cumb
mings was first, Potter second, and Hancox third In herds under two years, Cummings was first and Cummings was first and second, and Potter third Two calves under one year went to Cummings, with Hancox second. Herd bred by exhibitor was Jerseys and Guernseys.-Jersey
sented by but one herd of a very few head, shown by V. A. Little, Stonewall ; and Guêrnseys by
one animal, a bull shown by H. H. Hinch, of one
Winnipeg.

## SHEEP.

The sheep pens were taxed to thir utmost every available pen being filled. The gentler ani mals came out not only in numbers, but also in
quality. They were an excellent lot, and especially in the Leicester classes furnished close compe than is usually seen at the Western shows, a such a large aggregation of high-class sheep is sel-
dom seen in the West. The judging was done by G. H. Hutton. The exhibitors were : Cotswolds-
cesters-T. A. Cox; A. P. Potter, Langbank Sask.; R. D. Laing, Stonewall; A. J. McKay, Madonald; and J. Bartlett, Oakville, Man. Shrop-
shires-T. A. Cox, and Fred Skinner, Indian Head Oxfords-T. A. Cox, and Peter Arkell \& Sons Teeswater, Ont. Suffolks-James Bowman, \Guelph, Ont. Hampshires-M. A. Cox. Dorsets-J. A Leicesters put up the best competition, being aged and shearling rams and aged and shearling ewes, and also both championships. Potter, Cox Cox took nearly all the money the money. and Hampshires, and Arkell in Oxfords. Bowman and Chapman being the only exhibitors in Suffolks and Dorsets, respectively, took all the
money. There was keener competition in mutton class, $T$ keener competition in the Arkell and McKay securing the second and third places. T. A. Cox also obtained most of the first SWINE.
years, and the quality of the animals showed imer years, and the quality of the animals showed im-
provement. A number of Berkshires were provement. A number of Berkshires were there
from Ontario, and won a large share of the
Berkshire awards Berkshire awards. In nearly every class there
was keen competition, and it was not without a was keen competition, and it was not without a
fight for the honors that the awards were given. Every exhibitor showed good animals of a very
high rank, the kind that any intending breeder would do well to commence with. The Berkshire classes brought out the strongest aggregation, seys, Tamworths and Chester Whites were exhibited in goodly numbers. G. H. Hutton made the awards.
The exhibito The exhibitors were: Berkshires-H. L. Em-
nert, Oak Bluff ; W. J. Cummings, Glenlea; A.
J. McKay, Macdonald, Man.; T. A. Cox, Brant Iord, Ont. Yorkshires-W. H. Mortson, Brant-
light ; A. B. Bryce were therths-W. H. Mortson and R. H. Bryce were the only exhibitors. Poland Chinas-
P. D. McGrath, Oak Bluff ; F. H. Wieneke and M. Chapmanridge, two Manitield, Man.: W. H. Mortson, and A Cummings, Glenlea. Altaroc-Jerseys-O. C. Mille and John Maurer, Clive, Alta.
In Berkshires, Cox urizes. animals, and won second place in the aged boars, yearling sows, sows over six months and under one year, and on the herd (boar and three fe-
males), bred in Western Canada. A. J. McKay lowed some good utility stock, and was awarded lace in sows of the calendar year, and on sow and litter of pigs.
Yorkshires furnished a duel between Mortson and Potter. Mortson got first on aged boars, while
Potter was first and second in boars of the calenard litter, first in aced sows, herd, hoar and three females. championship for females on two very typey sows
with a great deal of quality. Mortson obtained the greater number of prizes ships. Bryce secured first money on young sows,
bes les several second and third awards. hesilles several second and third awards.
F. HI. Wiencke secured first place in all the H. Wieneke secured first place in a chame
pions insses in Poth Poland-Chinas. and had the chates. Stanhridge did well in the
good lot, and deserving of moroc Jerseys were
Honors in the competition. Honors in the bacon classes were distributed In the specials, considerable interest was cenT. A. Cox, on his Berkshires, obtained the breeds. championships in both sows and boars, on his serve champion bion. J. Cummings had the reypical fat hog, received the reserve championship

## Veterinary Director General

 Appointed.The important position of Veterinary Director General at Ottawa, left vacant through the
resignation of Dr. J. G. Rutherford V S March 31st, last, has G. Rutherfora, S., on ment of Dr. Fred Torrance, of Winnipeg, Man.
Dr. Torrance, after obtaining his B. A. at Mcaill University, spent a year at the Ontario AgriCultural College. He then attended the Montreal Veterinary College, taking the V. S. of that institution, and later D. V. S. of the McGill faculty of comparative medicines. Going West subsequently, he engaged in veterinary practice in Brandon, Mian., and for some years held the position of district veterinarian under the Provincial Government. In 1897 he moved to Winnipeg, where he developed a large practice, and when the Agriculappouted lecturer apporited lecturer in veterinary science, and later professor, a position which he has held up to the
present time. He was one of the first memberg of the Veterinary Association of Manitoba, and has held the position of secretary-treasurer and
registrar for ten years. He is also a member of registrar for ten years. He is also a member of the American Veterinary Medical Association, and
has been one of its vice-presidents. He is also member of the International Commission on Bovine Tuberculosis. In research work, he made special investigations into the disease of swamp
fever of horses, and presented to the the A. V. M. A. the first paper on that subject in America. He has also contributed to the agri Fultural press on veterinary subjects
commissioner, as well as Veterinary Director-Gen eral, but these branches of the service are to be divided by the Minister of Agriculture during the
year: The former duties have been efficiently discharged by Prof. H. S. Arkell. Acting Commissioner

## Prices of Agricultural Products at <br> Agricultural P.

Following is the range of prices of agricultur-
produce at important markets in the United
al produce at important markets in the United
Slates from July, 1905, to July 1st, 1912, as
given in the official United States crop report:

## Aypshipes at The Highland.

 In the aged-bull class at the Highland So ieties' show at Cupar, the three-year-old Ayr Re James Howie, Hillhouse, Kilmarnock, and sired by Knockmurran Hopelul, was awarded first prize and was later declared male champion, and grand champion of the breed.Two-year-old bulls were a strong class, and the premier award went to Robert Osborne's Mor tain Mains Prieskan, almost white, bred by exhibitor, and got by Auchenbrain Pluto; he is thus half-brother to the famous Peter Pan. Second award went to Logan's Craigie Lea, from bargenoch, Drongan. He was bred by Misse Mair, Craigbrae, and sired by Knockmurran Hope fur. James Howie had third with Howies Pluto. The winner in the yearling-bull class was Hub brain Pluto. Second was Zimbar, a well-grown handsome son of Auchenbrain Pluto. Both these In silk, Alex. Wilson paisley, was placed first, with Flirt 13th, a brown sired by six-year-old, bred ard. She is a very good stamp of dairy cow, and carries a long level uuder, with big, even teats. Second award Diana, a handsome brown-and-white, nine-year-old cow, by Prince III. C. R. Dudgeon, Cargen Hiss Romfries, was third, with Cargen Mains Three-year-old cows in milk made a small entry, and Alex. Cross was first with Lady Constance, bred by Exhibitor, and got by Muir Royal Re cow, and out of a Prince 3rd dam, and she is a characteristics and big, well-set teats. The sec ond prize fell to Chas. M. Douglas for Mavis, me-bred, and got by the same sire.
Mort Mo two-year-old class, Robert Osborne home-bred Lanugem and Nemourna II. Mr. Osborne also had the winners in the yearling heifer class in Thoughtless Beauty II. and Kymaline II. The champion fomale wa Als, first-prize

## Bladder Campion Sppeading

It is discouraging to see the way some weed are spreading. Bladder campion, bell weed, or fitten wrongly named white cockle, because of its white petals at the end of the bladder-like inflation which surrounds the seed pod. It should be easily recognized by comparing it with the cuts
found in the different weed bulletins. It has a very persistent, deep-growing root which is hard very persistent, deep-growing root which is hard
to kill. When plants are first noticed, they should


[^2]its crown, seen all over the country at this time of year.
e plant sends up numerous flower stems. The longer it is established, the more stems it will
send up. The seeds mature early, and when ripe
they easily spill out on the ground. The seed send up. The seeds mature early, and when ripe
they easily spill out on the ground. The seed
has considerable vitality, and will remain in congenial soil some years without growing. Besides crown trailed to a mellow inviting soil. Sheep will eat the plants, and will keep them trimmed down quite closely. Cattle will eat them, but neither cattle nor sheep will kill them. However infested were plowed up in July and bare-fallowed the process of smothering the weed with cultiv tion would be quite effectual.
merce fin hay and small seeds. seed should be carefully examined before sowing, to see that there is none in it. It will be found year if it is allowed to spread, as it has been doing of late years. Look out for this enemy. Pull or Spud Out the Buckhorn Now.-Red clover seed producers with ribgrass or buckhorn
in their meadows can easily see it now just out in their meadows can easily see it now just out
in blossom, and before the clover has come too tall to hide it. Going over the piece in narrow strips with hoe or by hand-pulling, will add
very much to the value of the sed. RAynor.

## Illustration Farms

The Committee on Lands of the Canadian Con servation Commission is making good progress in
the selection of demonstration farms, the lists hav. ing been completed for Ontario and the Maritime Provinces, and Quebec partially Those it Western Provinces are also being chosen by F. C Nunnick, B. S. A., Agriculturist of the Committee. This movement grew directly out of con-
servation investigations concluded in 1910-11 with a view to obtaining detailed information re garding farm methods and management. The farms user as a basis were among the best repre are always a stimulus to a community. One can always learn something from the example of a the farmers adia. It is now proposed to unit in voluntary-improvement associations, in junction with the investigations conducted upon them. It is believed that, by coming togethe from time to time to consider methods and rural problems generally, and to impart information in a co-operative spirit, much good will be accomtion has been prepared, setting forth the aims the assuciation, and providing for a president vice-president and secretary-treasurer, who shall or other citizen residing in the vicinity of the illustration farm or where the meetings shall be held nlay become a member, if interested in better farming and paying the membership fee of 25 cents member by unanimous vote at any regular meeting. He shall be entitled to all the privileges of an active member, except voting and holding ofice, and shall not be subject to any membership
fee. Meetings will be held at the discretion the officers, and upon request of the Field Expert of the Commission on Conservation. The usual parliamentary rules will govern procedure of meet-
ings. The list chosen to date is as follows. Geo. R. Barrie, Galt, Ont.; Thomas Hall, sou Peterson, Ruthven, Ont.; A. M. Collver, ' SimOnt.; R. F. Taylor, Essex, Ont.; Parliament Bros Cannington, Ont.; Whittaker Bros., Williamsburg, Ont.; J. M. McLean, New Perth, P. E. I.; Adam
Brown, New Glasgow, P. F. I.; Albert Schurman Cen Bedeque, P. E. I.; P. H. M. M. Tatterie, River non B. Leonard, Central Clarence, N. S. S.; Shaw
Bros., Victoria, N. B.; Taylor Bros., Antigonishe Chester Kenneth Raymond, Parish of Norton, N.B. ell, Shawville, Que.
light on a New York furm. The owner of the farm noticing bees buzzing aronad the ragred,
made-up figure, made a closer cxamination, when oth legs of the trousers were found to be dis-
ended with honey. A cheap; hive for so indusrious a colony.

Wheat-cutting is reported to have commenced over the southern part of the Province ten days
from that date.

## P. E. Island Notes.

On July 22 nd haying was just getting general, showers almost every day for a week, followed by a day's rain, that will damage the cut hay very much. The hay crop is light. There are some lew good fielas in the the second-year had for some years. Other crops are looking fairly well. Oats will be up to the average. Wheat, is about an average. In some fields we a fine showing, and potatoes and roots promise a bumper crop. The make of cheese and butter at the co-operative stations is well up to average of
recent years. dairymen are greatly encouraged. Pastures are holding out well. Prices of horses are the highest yet. Rest specimens of both draft and carriage stock sell as high as $\$ 300$ each, while any
good farm horso is salable at $\$ 150$ to $\$ 200$. Eggs are as much as five cents higher than the average of last year, and the shipments are larger than usual. Beef is higher than ever known here, and,
while some of the poorer-0ulity cut to Sydney and Newfoundland, high-priced cattle are coming in in carloads from Toronto to supply a demand for choice beef. Experts have
been been holding agricultural meetings through the
Province the principal feature. These meetings, together with the cow-testing associations which
have been organized, are a great education to farmers in the matter of a great edting stock for to dairy that will be a greater source of profit than Farmers' picnics are the order of the day, and the objective point of inost, of them is the Experidate of writing, very many Farmers' Institutes have visited the institution, and have been much interested in the dion of things there, and greatly ated and carried on by Superintendent Clark and his staff. The crops at this Station are looking well. Alfalfa is proving a success. Small fruits yield. A new sheep barn is now being a large and the experiments in fattening sheep will be carried on to a greater extent than formerly, and o much better advantage. The experimental orgrowth. Fruit-growers will be greatdy interested in this orchard, as there are so many varieties under test. Our Department of Agriculture are of gring handsome prizes for competition in fields more interest in these competitions than usual

Ontario Beekeepers' Association The Honey Exchange Committee of the Ontari Beekeepers' Association met in the Secretary's of couditions. Replies were received from double the year was then a record one in this respect, which replies show a still further decrease per colony he average being 48.7 pounds, as compared with 0.9 in 1911, a short year, and 58.3 in 1910 was a decided shortage in the Eastern Conties and many large beekeepers did not report, as crop was a failure
Owing to the heavy losses in bees, as a result the spring report of the Provincial Apiarist, ther is, no doubt, much less honey in Ontario than at competime last year. Fruit, which comes int prices, the only crop which is reported as hein at all normal being apples. Under these circum lowing pricas. No. 1, light extracted (wholesale), $11 \frac{1}{2} \mathrm{c}$. to No. 1, light extracted (retail), 14c. to 15 c . per
pound. pound. No. 1, comb (wholesale), $\$ 2.25$ to $\$ 3.00$ per No. 2, comb (wholesale), $\$ 1.50$ to $\$ 2.00$ per A later report will be sent out to producers of
buckwheat honev.

[^3]


## Small Fpuit Scapce in Nova

 ScotiaPerhaps the most wanted articles at this time ing. Strawberries, for the most part, have been a failure not only in Antigonişhe County, but other parts of the Province. Especially in Guys borough County, the berry crop is much less tha
last season. One berryman of Guysborough las season supplied several Antigonishe merchants with berries, while this season he could only sup ply one. County peoplè have been importing ber ries from Prince Edward Island. Wild strawber ries from Prince edward island. failure due in
ries were also not plentiful, the
both cases to the early frosts and dry summer. both cases to the early frosts and dry summer.
Farmers being at present very much broken. The work is going on slowly. The crop will not be as then feason. Good reports are coming from certain sections. The new and well-looked-afte
ground is yielding a good crop, while clover excellent. The old land, as year after year goes excellent. The old land, as year after year goes
by, is yielding poorly. The intervale hay will likely be go
liererything.
Grain is growing with new vim as never be
fore. Turnips in most parts have proven a fail
ure. Col. Robt. McEwen, C. M. McRae, and H. W. Canning, M. P. P., a committee of the Dominion
Sheep-breeding Association, were in New Glascow Sheep-breeding Association, were in New Glasgow,
Pictou County, Thursday, July 18th, interview-
ing persons interested in sheep-breeding. The ing persons interested in sheep-breeding. The
Domiuion Government has made a grant of $\$ 15$,Dominion Governument has made a grant of $\$ 15$,
000 to the Association, and it is proposed to hold sales of pure-bred rants and grade ewes. The above committee wish to consult with persons in
terested in regard to breeds and localities for terest.
sales.
Ant

## Cutting Grain.

Grain-cutting is now general over a great por-
tion of Eastern Canada, and the West is just beginning to harvest what promises to be oumper crop. While driving the self-binder may
not be as strenuous work as stooking, it is no small boy's" job, and, to be well done, requires on siderable attention. True, the newer models
of self-binders are as near perfect as one could desire, yet the leaving of an even stubble, making count in the after-work to be done on the field or with the crop, demand that considerable attention and skill be exercised in operating the binder. Where the grain of the crop is grown particu-
larly for seed, it is necessary that it be well ripened before being cut. The production of seed is the aim of every plant. The seed is the last porto the give of their strength to the seed right up dead-ripe stage. Complete maturity, or to the growing power of the seed is strengthened by al-
lowing it to thoroughly mature before lowing it to thoroughly mature before cutting.
of course, the possible loss of allowing the crop to become overripe must be guarded against. good practice to leave considerable stubble to protect the seeds from the hot sun during the reminter.
Pursuant to a large meeting of live-stock dealControl, the latter body has asked the Dominion Government to appoint a commissioner to investigate the alleged existence of a meat trust in
Canada. The proposal to establish a public abbattoir in Toronto was unanimously endorsed by
the cattle men, of whom about 100 were present Prof. H. S. Arkell, Acting Live-stock Commis-
sioner, Ottawa, has been sent by Hon el, Minister of has been sent by Hon. Martin Bur ence this week in Winnipeg of Western farmers, stockmen and packers, with a view to a possible
revival of the livestock industry in the Western
Provincos

Hon. W. J. Hanna, Provincial Secretary for On-
ario, has made plans for tario, has made plans for the building of a series of model roads, to the extent of 12 or 14 miles,
around the Prison Farm and the Ontario Agricul-
tural ( around the Prison Farm and the Ontario Agricul-
tural Colleqre at Guelph, Ont. These roads will
the luilt of the hest pantoriol witl he built of the hest material, with concrete culve built of the hest material, with concrete cul-


QUESTIONS AND ANSWERS Miscellaneous

RAILWAY BLASTING. Railway company has settled right of way across our farm, and contractors are now working in a field
of barley; are blasting in a hill. If they of barley; are blasting in a damage outsid the right of way, to whom shall te at pany or the contractors? Ontario. T. W. to apply to both.

REPAIRS. 1. We wish to know where to get re
pairs for threshing machine manufac
tured by the Company, Brant
ford, Ont. ford, Ont.; manufactured twenty ye

-
 Ans. -1 and 2 . We have no knowledge
as to where these repairs may be pur-
chased. Inquiry of some of the presentday ma
them.
alfalfa SEED. Would the 10th of July be too late to
let a field start growh for a field o
alfalfa seed, and what is the beetd let a field start and what is the best wa
alfalla seed, and wher
to to harvest it and take care of it, an
what kind of a machine is it threshe by, a grain separator or clover huller
This is the crop to grow for all kind This is the crop to grow for all kind
of stock. It will pay to grow for pas ture if one has to seed a field each year
for this purpose. It will grow if the for this purpose. It will grow if th
seed is treated, and do well sown the
same as other seeds, and will grow wher same as other seeas, and A. J. M.
red clover will grow.
Ans.-This should not be too late Ans.-This should not be too late a
date. of course, a great deal depend
upon the location and the season, but in
Kansas many growers save the third Kansas many growers save the thirt
cutting for seed, so commencing growth
in Middlesex Co., Ont., at the dat in Middlesex Co., Ont., at the dat
stated, should not too late unde
averace conditions. stated, should not be too late unh
average conditions. Most growers har
vest with the mower. Some have spe vest with the mower. Some have spe
cial table attachments, and bundle th
crop. Others cut it down and rake it up like hay, only rake it when it is
damp. In some parts of Kansas it is sheaves, and allowed to dry in the stoo
tor about ten days. The clover huller is the most satisfactory machine to us
for threshing the crop, although it may be quite successfully done by using
grain machine with grain machine with a special clover
tachment.

PEONIES NOT FLOWERING.



 lond







 10


THE FARMER'S ADVOCATE
removing landmark. What is the penalty for a person rea
Ving and taking away a corner-stone, und a and taking away a corner-stone, aune having been put down by a
rnneent Surveyor, and been there yy years? It has always been recog.
zed as the dividing line between the 2. What course of procedure would
 as the boundary line, could I I take
proceedings against such person for lift

Ans.-1. Five years' imprisonment.
2. Make a complaint, or or lay an Jrmation in writing, and under oath,
(ore a justice of the peace, under section tore a just
f32 ot The
3. Yes.
RAPE AFTER WHEAT-CARE SHSN - METAL SHingles.
 tall? If a hired man, through careless nessa, allows a horse to run away and
break a buggy, can he be held responsi
 ones, or a barn ? Ans.-1. Rape, sown on a fall-wheal
stubbl immediately plowed and worked
should should produce quitie a ceop of fall teed for sheep, but why did yo mass
hanace of seeding down with wheat ? aused by carelessnoss. That may no be easy.
3. Somew

## Cow STIffened - Sowing

ORCHARD GRASS
I. We had two cows last winter that
stifened wu. They wero ted what silage
they would
lick up cilenn. They alisa

They are watered in the stable
were lot out every fine day. They
2. We plowed a field of sod in June
and intend sowing fall wheat. Would it
do to sow orchard grass with the wheat
det


would be well to lay over the cemen
where these two cows stand, removable
 severe winter they would probably be
all right with good bedding, a 1 ittle more
and

jugge by
chances
grass.
farm crossing-buying at

1. The railroad crosses my farm, an
is the custom for the sectionmen $t$ emove the plank crossing in the fall
 ners scrape on the steel rails, making th
almost imposibibe to draw a hary lood
and
 ind ce lawtul height for the plank to be
in the railla a ittle above or below the
on the
diference op of too rail? Is there any differences
heifht of plank between a farm cross ng and public crossing?
2. A buys an articie at public auc
and on. Atter buying it he inspects he bil or
or it, and refuses to take it. Cad
wner compel him to take it, and pay
D. Uat he bid for th ontario.
Ontor to sec

 Railway Act (Revisert, Star information
ado, 1906., chap,
upon these questions.

SPRAY FOR OX-EYE DAISY. 1. Would you please state in your
paper it there is any spay that cuuld
be used to kill ox- ese and crow - foot paper if there is any spray that could
baisies to kill ox-ese and crow-foot
dais. 2. Myself and a neighbor were at the
Turner Ayrshire sale, and understood the price paid for the record heifer to be
$\$ 2,000$, but it was reported by "The Farmer's Advocate" to be $\$ 1,700$ Were
We mistaken, or did some other bidder Ans. -1 . There $\begin{gathered}\text { is } \\ \text { sat spray that } \\ \text { notory } \\ \text { for killing these weeds. }\end{gathered}$
then 2. "The Farmer's Advocate" repor Waa $\$ 1,750$, and wo believe is correct, as
it was written by our own agent, who was present at the sale.
AN ACCIDENT.
 B said anyone could drive it. Atte
starting out the horse took tright and jumped the ditch, throwing A out, and breaking his leg, and breaking the buggy,
Can B collect damages for buggy ? If Ontario. collect damages ? F E. S.
Ans.-It does not appear from the fore
Oing statement of facts, alone, that going statement of facts, alone, that it
is a case for d. damagase trom either party.
It may have a good cause of action against the other; but far more would be re
wired to support it than is disclosed by GRAVEL FROM HIGHWAY. If $\Lambda$ is taking gravel off the roadwa go to B's fence, on a bank of about six
eet feet? If a goos so close to the fenc
that it falls the following spring, is
w . J . iable to any
Ontario.
Ans.-A may go all the way, provided
he does it under proper authority from the municipal council, and assuming that
the gravel is being taken for the purpose a keeping in repair some road or high way within the municipality; but if it
doing so he should cause B's bank to dall as suggested, or occasion him othe damage, B's proper course would be then
apply to the council for compensation.

Veterinary
INJURY TO HOCK Horse received an injury on inside atery fluid, but healed up under my treatment. Now there is a puffy swell-
ing in front, and one on the outside o the joint below and in front of the poin $f$ the hock.
Ans.-There is horoughpin. These may have been aused by the injury. They are ver
hard to remove, and are not likely to
Repeated blistering win cause lameness. Repeated blistering w,
probably reduce them, but they will abble to recur. Get a bister made
2 drams each of biniodide of mercury and cantharides, mixed with 2 ounces vase
line. Clip the hair off the parts. Tie him so that he cannot bite them. Rub
he enlargements well once daily for two
tans with the blister. day apply sweet oile. and turn him in a
dox stall or on grass. Oil every day until the
blistering grass.
gromes off. blistering

GOSSIP
Sale of imported clyde mares Attention is called to the advertise
nent on another page of the auction ale, in London, Ont., on August 14h, class sires in Scotland, and two yearlings, all personally selected by the im
porter, who is a well-known breeder o lydes in Scotland, and Canada, havin himself had experience in both the Eastarn and Western Provinces. We are as
sured that this offering is full of first class breeding and quality, combined with
good size and character, and will be sold without reserve. For information, apply without reserve. For information, apply
to Capt. T. E. Robson, Auctioneer, Lon
don, Ont.

1359

TRADE TOPIC
He c. $P$. R. AND AGRICULTURAL WORK IT ACCOMPLISHED. On Saturday evening, June 29th, the
gricultural College Special, run by the Agricultural College Special, run by the
Canadian Pacific Railway, completed its
very successful tour of Manitoba very successful tour of Manitoba. The
rain was on the road for 32 days, and in that time covered all the Province tributary to the Canadian Pacific Rail-
way. Eighty-seven different points were way. Eighty-seven different points were
isited, 1,305 addresses given to 22,900
gid issited, 1,305 addressed 9,851 men, 7,426
people, which includeor the senior classes
omen, and 5,623 of the senion women, and 5,6
The live stock carríed consisted of three ure-bred Holstein cows, one pure-bred best quality work horses and brood hares. Professors Peters and Jones digoussed the horse problems, including types tc. Milk cows formed the subject of the second lecture, and the Holstein was dvocated for Manitoba.
Practical dem-
nstration was shown in the cows exhtbited, one being a $2,000-\mathrm{lb}$, weed, and nother an $18,000-\mathrm{lb}$. prizewinner. The
Hereford steer was used to illusbeef type A short talk was also given on
production and the raising of sheep. After the stock-judging, Principal Hales,
of the Brandon Normal School, gave the the Brandon Nors and gave the cation in the public schools, and advocated strongly more thorough training of ur teachers in agriculture, and they in
heir turn taking up more of the time in teaching that subject in the rural dis-
tricts, and also in small plots for agricultural purposes being attached to each
school. The question of consolidated schools was also gone into by Mr. Hales, and Professor Lee also gave an interesting
leture on the identification and eradicalocture on the identification and eradica-
ion of weeds. Farmers who were at the meetings last year came in, bringing
with them weeds which they had found their fields and which they were unable to identify, asked their names, and
the best way of destroying them. Mr. Lee dealt particularly with the destrua-
tion of the sow thistle, the Canada
thistle, mustard, wild oats, and French weed. subject of fodder crops was covave practical talk on working Manitoba farm. Poultry - raising was covered by Prof. M. C. Herner, and and Crowe. Mrs. Salisbury gave useful and Crowe. Mrs. Salisbury gave useful
instruction to the ladies on home nursing, sanitation, ventilation, etc.
The senior classes of the schools at The senior classes of the schools at at
most every point came over to the train in a body, and were addressed by either Principal Hales, Professor Lee, or J. J.
Golden, on the birds of Manitoba; of the Golden, on the birds of Manitoba; of the
great good birds did in killing insects sreat good birds aut all vegetation, the
which were harmfir to all
eed of getting sufficient trees around the arm so that the birds would stay in the district, and kiso birds.
diffrerent kinds of
All the meetings were opened with a
wing hort address, explaining to the farmers why the Canadian Pacific Railway Comany and the Agricultural College stan
thought it necessary to run the train, thought it necessary to run the train, ook in the farmers who were living
along their line, and the desire for beter farming, and for having prosperous farmers living along the company's lines. The farmers were also invited when they ame to Winnipeg to company, who were always glad to have them come in and discuss matters of mutual interest. Altogether the meetings were a great success. Many kind remarks were heard success. sides as to the generosity of the
on all s.
C. P. R. in furnishing the train free of C. P. R. in furnishing the train iree of
charge. The announcement made in rogard to the company starting demoncrations farms for the beneft of thinity in which they were located was always greeted with expressed the hope that the C. P. R. ould locate a farm of this description n their district, as it would have a very and
time the beet in keeping before them all
methods of farming.


MARKETS.

## Toponto.

REVIEW OF LAST WEEK'S MARKETS At West Toronto, on Monday, July 29 , recipts numbered 142 cars, comprising calves, and 18 horses. Trade good for butchers', but slow for export cattie choice butchers', $\$ 7$ to $\$ 7.50$; good, $\$ 6.50$ $\$ 5.25$ to $\$ 6$. cows $\$ 3$ to $\$ 5.00$. $\$ 8$ to $\$ 8.50$, milkers, $\$ 45$ to $\$ 65$, sheer $\$ 8$ to $\$ 8.50$; milkers, $\$ 45$ to $\$ 65$; shee
$\$ 3$ to $\$ 5$; lambs, $\$ 7.50$ to $\$ 8$. Hogs , $\$ 8.50$ fed and watered, and $\$ 8.15 \mathrm{f}$. o. boge Receipts of live stock at the City and
West Toronto yards last week were a West
follows

|  | City. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| Cars |  | 252 | 347 |
| Cattle ...... .... | 938 | 3,684 | 4,622 |
| Hogs ...... ...... | 2,370 | 8,622 | 5,992 |
| Sheep ...... ...... | 1,606 | 2,849 | 4,455 |
| Calves ...... .... | 493 | 212 | 705 |
| Horses | 20 | 130 | 50 |
| The total receipts of live stock at the two markets for the corresponding week of 1911 were as follows : |  |  |  |
|  |  |  |  |
| Cars ...... ....... | City. <br> 253 | Union. | Total. |
|  |  | 232 |  |
| Cattle ...... .... | 3,483 | 3,198 | 6,681 |
| Hogs ...... ...... | 4,833 | 4,525 | 9,358 |
| Sheep ...... ..... | 3,446 | 1,204 | 4,650 |
| Calves ...... .... | 778 | 148 | 926 |
| Horses ...... |  | 86 | 86 |

The combined receipts at the two mar
tets last week show a decréase of 2,059 kets last week show a decrease of 2,059
cattle, 3,366 hogs, 195 sheep, 221 calves
and and an incrense of 64 horses. Although pears in the decrease column, the figure Toward the end of the week the me koward the end active all around, and stronger
prices were realized on an improved prices were realized on an improved
quality of stock offered. Butchers' cattle and good fat cows were much firmer, and
more could have been sold if they had been offered. Sheep and lambs held firn Export Steers.-Forty-five cars of thi class of cattle were offered. to $\$ 7.25$ for medium grade
Butchers'.-The demand for choice
butchers' stuff was keen, and prices ad vanced
the best grades towards the end of the
week, although earlier in the week there was a drop from quotations of the preto $\$ 7.50$; good, $\$ 6.25$ to $\$ 7$, and com-
moner cattle at $\$ 5.25$ to $\$ 6$; cows, $\$ 5$ to $\$ 6$ for the best, and from $\$ 4.75$ down
for the commoner grades; canners, $\$ 3$;


## Cheese Mapkete



## Buffalo.

## Cattle, - Prime 8 sters, $\$ 8.50$ butcher grades, $\$ 3$ to $\$ 8.25$.

Hogs; - Heavy
$\$ 8.85 ;$ Yorkers and Mixed, $\$ 8.75$

 | stags, |
| :--- |
| 88.70 |
| $\$ 5$ |

gossip.
J. W. Burt, Coningsby, Ont., writee Angus bulls which he advertised in these columns, and that their purchasers ar vell pleased, and the calves are reported beautiful bull calt, nine months old, and a few choice heiters for sale. It inter ested, make inquiry about these good

Strawn he death is announced of Abne Illinois, well remembered by the older generation of breders of Shorthorn cat of that class of stock, and a a liberal pur chaser of Canadian-bred Shorthorns and
Clydesdales. He had also the reputation of bing a had hallas the reputa- alas tarmer, his
arm being one of the very best in the State. He spent his last years
with members of his family in Chicyina
advertising live stock The direct returns from advertising will testify. ivantage. Advertising which results in
sales is beneficial to the cause it establishes reasonable prices and
stimulates the home demand in the advertiser'se neighmand. Farmers
the prices which
ne his animals, and of the trequent shipciate the value of makes, learn to appre-
eves onenct one ey oses open to the possibilities of pure-
bred stock-breeding and become enlisted willing to pay sust Prices for their foundation stock. In
time, instead of there being one breeder, munity of breeders, otres, there is a com-
stomand for whose Tow communities have thus been de-
loped within the confines of our own ate, and others are now being rapidly Ancreased in a similiar manner.
 dvertisinge derived from the live-stock
It should
ronive inence to the
en properly combined with intelligence


What Kind of Education ends Most to Make Fapmer Happy and Useful.
(Held over "Farmer's Advocate", Literar
It is conceded that choice of material 0 an important consideration. Some painstaking, dwearisome toil of brain and fawlte. So in the soil our meag there are such diversities of taste, such grades of energy and ambition, suc airerences of opinion regarding life an the world could not make real farmen armer affinity for, and have or fancy they have nothing in common with the "doings" arm-life. To them it is too slow and plodding, too altogether "tame" and
stereotyped to suit their "advanced" idea f progress, and it circumstances compel their taking up the work for a time it is, very indifferently. aly im possible" is the man with the notion which was so prevalent some years ag He, entering the arena with such a hazy conception of the requirements of the its rewards that he attempts no im provement, cannot be pitied when the
commercial and competitive handicaps of the age leave him behind in the race Decided $I_{n c l i n a t i o n ~ t o ~ F a r m-l i f e .-T h e ~}^{\text {a }}$ child who has been brought up on a farm and instructed by an intelligent, broad
minded and practical farmer, certainly stands a good chance of cultivating
taste for
tor
agriultural pursults ; but, if addition to this, the boy has natural
tantencies atutur and her mysteries, the procoss of instruction is a real pleasure; and when
manhood is reached he has already familarized himself with much fundamenta knowledge, and made a good start on successful farming career. The "so
this case is of a good quality and proper conditions and cultivation canno School education and the more complet the better is most desirable, While its lac may not be a positive detriment to a so called successful career, it certainly is
most serious drawback which will in fuence his whole life. Looking to his life work the boy should, while giving all
diligence to the "common" branches, give particular attention to the sciences whic chemistry, botany, agriculture, etc., etc. Later, a course in an Agricultural College
where
definite information practically lemonstrated according to most approved Choice of Farm.-The location and
adaptability of land determines largely the branches of farming taken up. Afte decision, give
sudy to them. $\quad$ intelligent, concentrato
Secure information fron reliable sources. Keep eyes and ears open
to learn, and do not be atraid to admit

"Grey Matter" of Good Quality.-This seems such an obvious requirement that
t should need no mention, but if ever
brains were needed in farming they are orains, were needed in farming they ar such a strong factor in the world's
economy. Skilled labor being at such a
premium, wages so high, one's capital premium, wages so high, one's capital
more or less "scattered,", especially it he
goes into mixed by keeping an accurate account of onl and receipts and a close watch upon the
probable avenues of waste that anything probable avenues of waste that anything
more than an approximate idea can be had of one's financial standing. Farming ness methods should obtain. Good judg ment is needed. A clear idea of values
the ability to make fair estimates intelligent decisions when necessary be
they regarding people, property or polithey regard
Enthusiasm and Energy -Area spirited
pair of steeds warranted pair of steeds warranted to carry their ways, and they work equally well in the furrows if guided skilfully. Whole-souled enthusiasm for the work, appreciation of its possibilities and determination to
make those possibilities facts will make make those possibilities facts will make
one forget or not notice the jolts en route The courageous, sensible man, recognizes the necessity of work-often hard and
continuous, but his optimism does not Good Health and Cheerful Disposition.A knowledge of the needs of the physical heavily in the scale of happiness and shining disposition-all of which may be acquired to a large extent-they are al-

 ing plan and belleve in carrying out the advice, "Know something of everything,
still others with equal' success lean very decidedly to one special feature, and concentrate their energy and money upo
testing the remainder of the maxim, viz "Know everything of something.", One's
own judgment, circumstances and finances own judgment, circumstances and finances
must decide just how many "irons" he would
wre."

## Knowledge of Soil Requirements,-Its

 Knowledge of Soll Requirements,-1t,capability and adaptablility are positively essential where grain or fruit culture ar laken up. Through all cropping system
keeping in mind the fundamental problem in agriculture viz: "Maintaining soil fertility while producing proitable crops." Economy Properly
using a dollar's worth of time on a five eent product, nor yet carelessly neglect ing to save and value. Never cut down expenses in essentials. This is not economy Study to avoid waste of time, energy and
waces where horses in greater numbers Wages where horses in greater number in the West in places-machinery such gasoline engines takes the place
horses. borses.
Method
Method and Methods.-Keep ahead of
your work by being prepared. Attend your work
to the work of the hour in its own time.
System, of course, simplifies labor, thus giving physical, mental, and nerve rest, and reation or improvement along some other line, the change being in itself restful. Have a system of working, but see that it is a good system. Because your \{athe, planted his oats according to the moon's
vagaries is no reason that you should. ve receptive and learn the best ways Neatness.-Should be observed for its own sake as a joy-giver to one's self and
others, to say nothing of its commercial

Thoroughness.-The masterful knowledge
of any subject at once makes it a source of power and happiness.
Literature.-What advantages for home education there are on every hand to-day sive range of matter treated so intelligently and solely in the farmer's in terests ; the "farm pages" of our news papers; the reports and bulletins on
various subjects sent out by the Agrivarious subjects sent out by the Agr
cultural Colleges, etc., etc., are a libera education in themselves. The daily paper is one of the "must-bes" of the up-to-
date man-of-affairs, from which he makes survey
doings.
But, oh 1 the delightiful wonderland o literature made possible to the averag farmer by the cheapness of the good
books of to-day 1 How the book-lover revels in the profusion, and our friend or the educational process is a book-lover ertainly. Delving deep in the profundity historian through the years agone: forgetting the weariness of his body in finds a delightrul blending of utility and A Love of Musicry. Art-May be laughed at by the morbidly practical man
secure in his opinion that "such things may be well enough for women-folk who have nothing to do, but for a farmer
how
perfectly
absurd ! dreams-poor blind man, that every day sounds in which the angels themselves nature's melodies can appreciate.
What to him is the cricket's cheery chirp, the lark's ecstatic song as it sky-
ward soars, or the prosaic frog's contented croak?
What beauty sees he in the shimmer of the moonlight upon the old water-
trough in the pasture ; the nodding of a stock of feathery golden-rod, or the wild
abandon of a storm as it sweeps through the forest swaying the wood-giants so Nor could he be convinced of the exact sanity of his artistic farmer friend who
would insist upon his real delight in th brook's rippling song or a fleecy clou edged with the sunset's golden tinge.
How much life means beyond the How much life means beyond the me
material things !
Neighborliness.. We may choose our friends, and it is our own fault largely if the choice is unwise, but our neighbors upon them, and congenial or otherwise we have to make the best of the situation; but our important query should be
How are we to fill the relationship and good neighbors

```
when we have helped him with his
``` threshing or sheep-shearing, or in giving
exactly sixteen ounces to the pound of seed-grain; but we owe it to him that our general life should emanate the very spirit of sympathy, tact and helpfulnes just a little harder to cultivate-the willingness to be helped.
Brotherhood.-Cultivate the broadmind edness which can live above and see be dollars, wheat, hay and hogs, or the continuous grasping after "more land." Fall in line with any movement which for the public good. Be willing to sacrifce your personal inclinations for
the sake of the "greatest good to the greatest number," and even go a step arther and be a live and active force in tionships of life and our kinship with
ideal education for the FARMER.

Wentworth Cu. Ont Held Over "Farmer's Advocate" Liter Of what should a farmer's education or what should a farmer's education
consist ? Surely that is a subject ponder over. One could never fully de scribe, even if he could conceive of a farmer, who can best appreciate and use, and perhap best shows the value of a good and complete education. The race is beginnin portance of the farmer, of the high posimankine must fill as the one to who cause of this high position he needs to be trained, that he may fill it and exal

Granted then that he needs an educacourse he what should it consist? of siples of education "the three R"," their companion subjects, which ar caught in the public school, but allter
that what will most benefit him ? must be knowledge that will help him to work real practical information and raining. How can he best obtain it Perhaps the greatest help any young
man can have, who wishes to become a in a good prad agricultural carmer, is a coursa should be trained to think for himself and to become self-reliant, so that when nece scientific farming to his own service o is well that there are colleges where arming, a science, is taught as such; ealized that farming is worthy of a life time's research. Thus the young man competent to enter his hite-work as thoe who are educated for any other profesthis college, both the when he leaved practice of farming, and be able to run one on a eystem, similar to any businesa So much yor what he learns in school. ducation. He should be able to continue it alone, or his college days have been of ittle use. If he has learned this all-1m one dull uninteresting day in the open air of the country. Who could be lonely waith nature for his companion? Tho larmer should make her such. Ste study her, love her, know her,-hie will receive his own reward. He should be and bird lit at her andren, the animal lowers and all growing life. He should now all her moods ; love her storms and ppringe, wind, heat, and calm. Thua easons as they come, will find him with greater longing to live and learn. Thif reatest factors in his development. But the farmer need not stop with be acquainted with. All literature and art are open to him. These are avenue of delight he cannot afford to pass.
What wealth there is for him to claim to literature ; how much beauty has been preserved in pictures from "the regions of the past for his eyes ; what an ex quisite enjoyment may be his through
music,--beauty and poetry blended into sound; these may all be his. Why can he not enjoy them with any other man ? They are necessary
his higher being.
\(\qquad\) There is another element of the farmer'
education which we must not forget. Ho education which we must not forget. He
should in addition to other things have a
knowledge of civic affairs. He should know track ? His case is not hopeless. how his country is governed, and realize
his own responsibility. He must under- \(\begin{aligned} & \text { There, make the best of it. } \\ & \text { Do you delight in telling your friends }\end{aligned}\)
stand stand what is meant by good citizenship
and its relation to his country. This is one of the most important points i a farmer's education, for, as is the individual, so is the nation. May the indi-
viduals have high ideal. viduals have high ideals.
We have touched a fe
which should be contaiew of the points education. He should be well trained to live and think; he should be versed in all the mysteries of nature; he should be familiar with and appreciate litera-
ture and art; he should be a good citizen of his country \({ }^{\text {nd }}\) of the world.
There is one thing more: To be the highest type of man,-and this whether the be farmer or not, he should have in
his heart the Clhrist spirit. He must love and follow the only perfect Man that the world has ever known. The more he does this, the brighter will be
his character. This is the greatest part his character. This is the greatest part
of all his education.
Wentworth Co., Ont. "TAPS."
make the best of it
Ever count your best and highest mo-
ments your truest moments. When you eel strong, courageous, magnanimous, us,--then you are your real self. Assert that you will always be yourself, and the shadows of weakness, cowardice, meanness, unkindness, melancholy and
idleness will flee trom your presence. If you would achieve success, act as though
you had already achieved it, and see you had already achieved it, and see how easy it will be for you to grow up
to the place or the position to which you aspire. Put yourself in the place of the successful man or the good man. It is the only way to get there. Then pul
on your best smile every day. Don't on your best smile every day.
put it away in a dark closet to be
brought out and worn only on special occasions. The oftener you wear it the more slowly it will wear out. Look on
the bright side always. If things go the oright side always. If things go
wrong, consider that the occasion is a
challenge to your inherent manhood to challenge to your inherent manhood to
stand the test and not go down under to weight of anything which your plans. Remember that the man who does his duty cannot fail.
Therefore, make the best of it. Do not bemoan your past mistakes and Cailures.
overboard. Forget them. Throw them
They don't belong to you now, and you have no right to keep chem. Think highly of yourself. Yo
were made to have dominion over your were made to have dominion over you
surroundings. So expand your ches
and hold your chin and hold your chin high. It is the only
satisfactory way to live. Drop your faults and failings out of sight. Give not come back. Develop the positive side always. If you are full of good, evil
cannot harm you. Therefore, make the Do you think the world is getting
worse ? if so, make the best of it. Is your neighbor getting more dishonest, mean, and uncharitable, every day? If
so, make the best of it. But wait,
did you ever did you ever consider that his vices are
only his virtues gone astray ? only his virtues gone astray? dt is
possible for him to do wrong only when
it is possible for him to do right, Have
the faults and peculiarities of those Who are not your friends? If so, yo
are not making the best of it. Their faults will multiply fast enough without your aid. Besides, those peculiarities
which seem to you to be faults, may be Which seem to you to be faults, may be
virtues in reality. Do not put on colored glasses while looking at your neighbor's defects. By the way, it is a good
plan, also, to keep the liver in good order. (Plenty of fresh fruit will help).
Therefore, make the Wherefore, make the best of it. If sou like to be rich? If so
Would your remember that what you are is of far
more importance than what you have. The question, what are you worth, can not be answered in terms of dollars and cents. One uncharitable thought, one un-
kind word, one mean action, will sub tract more from your real worth than will the loss of a million dollars. Do you believe it? It is so easy to for-
get. One kind intention get. One kind intention, one helpfu
word, one generous deed, will enrich word, one generous deed, will enrich you
more than will the gain of a million
dollars. dollars. Is it true? if so, make the
best of it. Are you getting old and worn out?
Do you find on looking back that the Do you find on looking back that the
thoughts and words and deeds of your life have left you poor and thin and
weak ? If so, make the beat Act in the present. Your days are not.
yet ended. \(\quad\) But every moment is precio ended. But every moment is prec-
ious. Therefore, use them all. Can you measure the possibilities of a single
moment? Do not despise one because you have thrown away a million. Wake up, and be a man, to-day. Then, to-
morrow you will be richer.
Therefore,

Some Old Time Echoes.

\section*{On the summit of the hill we found} On the summit of the hill we found
our "boys" awaiting us, John with his handsome dusky face lighted up by
smile of welcome, and smile of welcome, and Jim, his lieuten-
ant (i.e., forelooper), smiling also. They
had the horses ready had the horses ready for inspanning (to
'inspan") "inspan" is to harness, or to yoke your
oxen or your horses, as the cave oxen or your horses, as the case may
be, and to "outspan" is the reversen whe, lo! it was discovered that the
halters had been forgotten, so that John must mount one of the steeds and re turn to Maritzburg for them, whilst we,
op necessity, must remain over night at Howick. of this, an entry in my jour-
nal of 2nd June says. hal of 2 nd June says: "This hotel is of a fair size, rooms unceiled but lofty,
floors boarded, a luxury we shall soon lose; French windows opening shat to soon
verandah. from which verandah, from which we see, on the
winding road below us, over which winding road below us, over which we
ourselves had just come, wagon alter
wagon crawling along, dragged leisunely wagon crawling along, dragged leisurely
by its fourteen to eighteen oxen, accord ing to its load. Here and there feed groups
them. Just animals, our own amongst
Jhe foot of the hill is the Umgeni River, its current danger-
ously rapid. We crossed it sfoly terday, but sad accidents it so occur, yos-
quite lately havine ended disastrously wagon, horses and drivers going over the beautiful fall below of between 340 and
\(\mathbf{3 5 0}\) feet. Of this fall Natal is justly 350 feet. of this fall Natal is justly
proud, and it is a a great attraction to

On the 4th June I record as a specimen the first of a long chapter of acci-
dents roads, and especially with South African horses, cease to be accidents, but are return with the travel. John's late poned with the missing halters postp.m. It gets dark about six, and that
quite suddenly, like the letting down of a curtain. Just out of Howick is a steep mountain, and up it our horsed
stmply refused to go. They jibbed Stmply refused to go. They jibbed,
plunged and kicked. The leaders and
the the two behind them turned round to look at us, getting their front legs mixed
up in a confused heap over the traces, up in a confused heap over the traces,
their hind ones over the pole. One was thrown down, his plunges driving the
rest wild. Some men passing with their rest wild. Some men passing with their
oxen (all help one another on the road oxen (all help one another on the road
as a matter of course) came to our rescue, and by the time we were righted
for a fresh start it was almost dark for a Presh start it was almost dark,
and we were still thirteen miles from and we were still thirteen miles from
Curry's hotel, our next stopping place, Curry's hotel, our next stopping place
these performances being repeated every hill. When our wagon got jam med into one of the many big gullies o
the road no amount of whipning or ing could induce those animals to e cate us. We spent more of the time obt of our wagon than in it, and finally
agreed to walk the last five arreed to walk the last five miles to
Curry's, leaving the boys to get out Curry's, leaving the boys to get out of
the hobble as best they could. We reached
the hotel at 10 the hotel at 10 p.m., our "trap"" (every-
thing is a "trap." in S . Africa) arriving
some hourg after, as much puched by the some hours after, as much pushed by the
men as pulled by flour of the quieter horses, which had proved of the quieter amenable
to the measures to the measures employed. Never shall
I forget the dirt and discomfort of those wearg hours, or the griminess of our those
garments. We had been told garments. We had been told of that we
must give up all idea of feeling really must give up all idea of feeling really
clean from the moment of our start, and clean from the moment of our start, and
from honceforth we indeed realized that
our opportunities for a real "wnch" from henceforth we indeed realized that
our opportuntities for a real "Wash"
must be furtively, nay, even surreptimust be furtively, nay, even surrepti-
tiously obtained, for once away from the
outskirts of civilization we should have outskirts of civilization we should have
but a sparse supply of water and next
to no privacy to no privacy. The redness of the dust may give a kind of picturesque gypsy-
like hue to one's general appearance, but
dirt is dirt dirt is dirt all the world over, and no
attempt at poetical interpretation of its attempt at poetical interpretation of its
results upon one's person can make of it anything but an almost unbearable
nuisance to travellers on trok across the veldt of South Africa. Looking back from the vantage ground
of privileged, progressive Canada, it may of privileged, progressive Canada, it may
seem hard to believe that there could be so many difficulties to be encountered and so many delays to be put up with
in a journey which now, with railway in a journey which now, with railway
facilities. can easily be accomplished in
a couple ce a couple of days. To have worked such
a change under such adverse conditions triumph of engineering skill and an an and during monument to what the best brains of a United Empire can accomptish when
the opportunity for achievement presents itself.
Menwhile a backward glance into the difficululities encountered by the pioneers dr
early colonial days may early colonial days may not be without
its whotesome message for a generation
 motor cars, telephones and even aero-
planes are at their service if only they
have the money to have the money to pay for them.
But it is time to return to the yello

old pagee of my journal of thirty-seven years ago, if I am to give those wh
may care to read my extracts anythin of an adequate idea of the rough and
ready methods which had to be and ready methods which had to be adopted
over and over again before we reached our goal in the Transvaal. My per pictures must be just snapshots, taken
with little regard to consecutive With little regard to consecutive arrange
ment. The first relates to an incident which led to the final decision that we must give up all hope of using horses,
but must substitute steady-going old oxen
in their places. takes somewhat the form of a prophesy "Our mishap of to-day has nothing to
do with the horses. The men oiled our wheels and bound leathers around our springs, but these roads would break come back with hardly a piece of the riginal wagon or harness lett. There are lies into which we dip, almost precipices
which we seem to overhang. Whatever may come in the way we nust go over
it, or struggle through it somehow there fore by the end of our journey, we shall
have many adventures to relate.,"
This prophesy was fulalled This prophesy was fulfilled to the let-
ter, for a more delapidated vehicle could hardly have been found thav was ours
when we arrived at last at the mining ettlement at Eersteling.
Both these names mushman's River.those who have studied the history of the Estcourt was but a collection of housad hardly deemed worthy of a mention upon a wild beauty of its was not without ban thankfully testify Difectly we had reac
quarters at the primitive hotel, a judge selves and sat to spoak, empanelled themally) our unfortunate wagon, making candid remarks which doubtless amused
themselves, but hurt us themselves, but hurt us cruelly. They
looked wise as owls as they shook body, ratuled its wheels, weighed its pole but had not competent judges done the same before we left Maritzburg and pro-
nounced it fit for service? the bright green paint, which had made L look almost as good as new, may have
covered some of its defects. Its
Iresh tilt and clean lining might have had a
touch of hypocrisy about it, but I for one had boen thankful that it had at least tried to put "a good face" upon it.
The pole certainly was that there could be no doubt, so it was necessary to have that serious defect
remedied before making a fresh start And now you know the history of our for a re-adjustment of the Jole " just raising of the body to lighten the strain we are asked. Take it easilly. hurry? admonished. I daresay you will get off
the day after to-morrow, etc., etc." on which remarks, and from later expericomments : all probabe been there three days, and in days longer we shall be here for three express half the exasperation this quate cause. My temperament is quit too explosive for South Arrica, I am am
convinced, and hif I lived-no, I should die convinced, and ir I Itved-no, I should die
of it long before that-until I was eighty, 1 do not believe time would ever recon-
cile me to the dead-alive, leave-it-alone and-it-will-all-comeright fashion in which people set about, or wait done speedily if they would begin it less
sleepily. sleepily. An express train shrieking
through the cuttings and mountain pastes-and it is to be hoped that one will do so some day shortly-
would work miracles, galvanizing these dry bones-oh! dear Natalians, do forgive me !-into new new life and vigour. How
iome sharp Yankee competitors would Some sharp Yankee competigors. Would
make your tradespeople "look alive", after make your tradespeople "look alive" after
a manner hitherto unknown to them!
Competition Competition of any kind would give the
mpetus wanting: and Natal, to say
hothing of the Free State, and the Transvaal, could find room and and work the
shoals of blacksmiths, wheelwrights
handicrafts sluen Another prophesy which has also come

AUGUST 1, 1912

Hope's Quiet Hour
The Joy of Loving. That great joy far away, tar away if
the golden clouds, the one whom you
can hardly see when you stand as hight as you can on tip-toe.' That in the greal
joy of Loving.-From "The Blue Bird."

There is a great joy in being loved-
joy we all recognize and try to secure abut the oy of loving is far greater,
- ind it is well within the reach of one of us. There are some joys which
are out of reach, even of thiose who stand on tip-toe The the blind are cut off
trom the joy of seing the "abut,
 erise, and the plain must go without the
roveted satisfaction of beauty. But the joy that is so high that it reaches the
golden clous, the joy of God Himself, 0 golden clouds, the joy of God Himsell
the joy that can transigure the most
ordinary life and fill it with unspeakable
olish bliss, may be ours now and always.
Rich or poor, healthy or sickly, clevere or stupid, ugly or beautiful we may be,
yet the door into this House Beautitul is fung wide open for our entrance. It
is our own fault if we stay miserably
outsidi. It was the Man of Sorrows Who talked most triumphantly about "My Joy," It
joy comes from loving, then His joy
must throw the joy ot all other men into the shade. Some pootle sem
crushed by by the sorrow of unrequited affection. They have given love and re-
ceived only indifierence; and all the brightness seems to have gone tout of
their world.
I read a little story the other day about an
who had been ..deserted at the altar,", and who took to her bed and stayed there
tor years, in consequence. She was not ill, but she telt that her heart ought to
be broken, and acted acoordingly. Shee
had looked for happiness only in being had looked for happiness only in being
loved, and had never discovered that the great joy of loving was worth intinitely
more.
One who cares chiefly about be Ing loved is seinsh, seeking somethng
or self, always wanting to toke instead of to give. \(\left.\begin{array}{c}\text { Such an attitudis of mind } \\ \text { debasing } \\ \text { rather } \\ \text { than uplifting, tor- }\end{array}\right)\) turing the soul with jealous doubts and
ears, and unhappy if the lover shows
 pappy if only we can tet everything we we My love no longer loves me-let mo
The gilory is gone out upon the hils
And the gray downall of tit astes fils 0 The old bright places of the earth and
Why should I wander up and down and

A Part of Rose Garden on Silver Brook Farm, Stayner, Ont., Property of George Grainger
ferently says: "The condition of the They are good, they are bad, they ar poor and of the criminal class is none
of my business,"" is far behind the Wise, foolish are strong, God cares, and it is our business to then why should I sit in the scorner, care, too. It may be, as Dean Hodges
declares, that in the past the Church of cod devoted all her energies to the task of fitting men's souls, one by one, पor
heaven. But now she hey heaven. But now she has discovered
that there is another side to her duty.
"Instead of simply preparing men to go "Instead of simply preparing men to go
to heaven, it is to bring heaven down
here on this green and brown earth on which we live. Instead of saving men
from punishment, it is to save them Irom punishment, it is to save them
from their sins. Instead of ministering the whole man." The world's duty to a criminal was
thought to be only to punish him and
prevent him from injuring society. Now prevent him from injuring society. Now
we understand that we have failed unless he is helped to start afresh and realize the glory of manhioca. one to be feared or conquered, but brother to be helped for love's sake. Are you tired of trying to enrich your
own life; tired even of the struggle after
holiness ? homess
small progress you appear to make, feeling that it is hardarted at times, but I We all get down-hearted at times, but can speak from that such derression is usually
I say that the result of thinking about ourselves.
We fix our attention on our own pains

THE FARMER'S ADVÖCATE
 But any little inconvenience that refulted
is over and probably forgotten, while
God God Himself is to be trusted to give a
rich return of lasting joy. Our Lord
has said: of such said: "Whoso shall receive one
sutle child in My Name receiveth ME," and "Inasmuch as ye have done
it unto one of the least of these My brethren, ye have done it unto ME.,
The high privilege of ministering to the The high privilege of ministering to the are we taking advantage of it?
Love is not only a feeling, it must find some solid outlet or it is worthless.
"."e that hath My commandments, and
keeneth them keepeth them, he it is that loveth Me,
said our Master. Love that is satisfied
with feeling with feeling and talking is not the kind of love He will accept. Even a re-
ligion that can cast out terrible evil and can work miracles, may be rejected by
Him Who will say to those who have prophesied, cast out devils and done
many wonderful works in His Name, and many wonderful works in His Name, and
yet have secretly indulged in wilful and yet have secretty indulged in wilful and
deliberate sin: "I never knew you; de-
part from Me, ye that part from Me , ye that work iniquity."
We are living in a glorious age, an
age when men en and age when men are awake to the fact
that the good of all mankind is the business of each of us. Everywhere we
find find a recoil from the selfish question of
the first murderer: "Am I my brother's
keeper?" keeper?" Thousands of enthusiastic men
and women are doing their best to se-
cure a reasonable wace for per playgrounds for children, a chance for
those who are fighting with the white Plague, better conditions for the neg-
lected and downtrodden.

\(\qquad\)
\(\qquad\) the road,
And be the friend of man.
 of toil unsever'd from tranquility Far noisier schemes, accomplish'd in re

Yes, while on earth a thousand discord Man's fitful uproar mingling with his Still do thy sleepless ministers move on, Still working, blaming still pur vail turmoil, is gone.

\footnotetext{
ay's holiday. She was no relation,
}

\section*{The Beaver Circle.}

OUR JUNIOR BEAVERS

\section*{[For oll pupils from First Book to} Junior Third, inclusive.]

The Little Black Cat. Dear little cat with yellow eyes
That cocked her head and looked so wise ! What if her fur had turned to brown?She was the oldest cat in town Because they're wrinkled, old, or gray Rather dingy she looked, 'tis true, But what are looks when one can
A huntross she, of ancient fame, Who never failed to "bag" her game And oft her game, to our surprise, Was of a most prodigious size; She scarce had strength to drag it home. Year after year she chose her nestA place that kittens like the best The very nicest place to play. But when the earth was white with enow, And wintry winds began to blow, Beside the stove she sat and purred,
So eager for a look or word Ah, little cat we loved so well Strange are the stories Time can tell How long ago now seems the day - Marguerite Borden, in Granite Monthly

The Somethin' in the Bapley.
One day little Linda May started as sual for her daily long walk to school. inda lived in the country, and generalwhich lay between her home and the On this particular day she trudged
happily along, watching the great clouds happily along, watching the great clouds
op fog as they rolled up from the river bluffs not far away, and rejoicing in the The latter half of her way hay beside
a. lone barley field. The grain was now nearly ready to reap. It was a glorious fuddenly she saw a strange motion in ning through it
The motion kept on. The somerhing in the barley was trying ta keep up with
her. As she ran, it ran. If ehe stopped her. As she ran, it ran. If she stopped
to listen, it stopped. Her heart beat horribly. She felt as though she were What-what was this mysterious creature which she could not see, but which Was it going to spring upon her and son fangs?
Ne Lind , herself to her full strength; litthe wind her small feet. Faster than brown, pebbly road. As fast ran the Collow creature in the barley. She could it with trightened eyes. The child threw herself at last upon
the little green in front do the schoolhouse, while in response to her anguishtrooping out. But before they could reach her, her
little pet kitten, which had followed her little pet kitten, which had followed her
from home, began to play about her head and face, as she lay in the grass. often inspire her the whind, the whitch too preferred to accompany her little mis-
tress under the cover of the barley rather than in the open road. Probably she knew that if she were seen ehe might \(\begin{array}{cl}\text { be sent home. } \\ \text { Linda } & \text { recovere }\end{array}\)
learned the cause of her fright, more over, she learned to find out the reasons
for things before for things before being frightened by
them.-Kate Upson Clark in Competition for the Juniop Beavers.
Here is a competition just for your-
selves little Beavers; the Seniors may ot try this time. Write a story about a cat, ata class at school, as well as your
aname. Send the letters so that they
nom
may reach The Beaver Circle not later
than Septer than September 1 st. Address them to
"The Beaver Circle, Farmer's Advocate,

Junior Beavers'(Letter Box
Dear Puck and Beavers, \(-M y\) father has taken "The Farmer's Advocate" for quit
a while and I Itike reading the little let
ters.
 and tour miles from the post office.
I have a pet dog called "Jack."
 sloigh, and have great fun sleight-riding In winter. Wishing Puck and the Beav
eers every success, I am your little friend
 Dear Beavers, - As this is my frrst lot
ter to
 would toll you about our fiowers at
school The boys have one side ot the
walk and the giris the other walk and the girls the other. or cureo
our side
miles to
mo the ne nicest miles to go to school' we found it very
cold last winter, but we drove our whit con last winter, but we drove our white
pony (we call her Dolly), and put her
in an near in a near-by stable. There are seven in
our family, four brothers and two sios
 Woodham, ont. (Age 10, Jr. 3rd Book).
Dear Puck and Beavers, - My father has laken "The Farmer's Advocate" Ior \({ }^{\text {a }}\)
couple of years, and \(I\) enjoy reading the letters overy Friday. I have a call tor a pet. Thave a black dog; his name
is Watch, and he is very fond of hunt-
 mangels. Wo when we were planting the
rom Neustat.
as mile and a quarter lrom Noustadt. As my letter is gotting
fong I must come to a close Neustadt, Ont. EDWIV ReINER
(Age 9, Book II)
Neustadt, Ont. \(\qquad\)
Dear Puck and Beavers,-This is my

 and two rabbits, and one bantam. old,

 Feaver Circle every success.
F. RUSSELL POMTER
(Age 9, Book Jr. Second). Doar Puck and Beavers, -1 am ten yoars is so cold the I dit summer, by winter. I like my teacher very well. fier name is Miss Jeffray. I have tw pots; one is a dog and the other is
cat. The cat's name is Tibbie
 rat terrier. I hope this will escape the w.-p.b. I will close, wishing the Bean
ors every success.
BEULAH BAILEY - (Ago 10, Senlor Part Second
 go to school every day, and we get ride with the milkmen to the school. We have a mile and a half to go to school
Our teacher's name is Miss Munro, and


 margaret fraser Lancaster, Ont., 4th Cone., R.R. No. 1 .
Daar Puck and Beavers,-I am going to tell you about one of my pets. I have
a little kitten which \(\Gamma\) coll Sunny.
He is fond of playing with a string. Ong day when I went in the stable Sunny
was there; he was in one of the windows trying to catch some mice. \(I\) I watched trying to catih some mice. T watched
him for a while to see it he would catch anything. Atter a while he knocked
down a nest of mice. down a nest of mice. Ho jumped atter and
them and soon fixed them. them and soon Ixeod them. There were
five of them and he ate them all
am one of the scouts of Chatsworth.

THE FARMER'S ADV.OCATE

\section*{ It it's a dine day. Wishing the Beaver stays around the farm all the time, and
Circle every success.
EARL CARR
 Chatsorth Ont.
You are Nunber 43 on the Garden
Competition Dear Puck and Beavers,-This is my and he eats them.
wishing the Beavers every success.
DONALD L. McDovald. * Donald L. McDonald.}
 aken "The Farmer's Advocate" for
twenty years, and we all like it very much. I have been going to school a
littlo over one year gind the netle over one year, and like it very
well. We have a school garden this year, and II have sunfowers and dafisies in my plot. I have 11 miles to to to
school, and I I
like my teacher (Miss schoo, and I like my teacher (Miss
Baker) fine I have no brothers ato
Bisters top play with, but I have lots of



A Basketful of Kitten
have two old cats and seven kittens, ig tile ig tile on our farm, and something was
arrying grass into it, so + set
 muskrat, and another this morning. As
this is getting too tong 1 , his is getting too long 1 will close,
hoping this will escape the w.p. b. Yarmouth Centre, Ont. Diton mils and Centre, oun Dear Puck and Beavers,-This is thio first one letter \(I\) wrote to you, as the
not find
its
way
to the the waster-paper basket. We Wave in all sight horses, now there are two team at home whose names aro Mar, Doll
Maud and Fred, and two colts two year
old and old, and one one year-old, one is a to
and the other is a kind of a brown We have a pet pigeon ho is whiteo
was my cousin that brounht
\(\qquad\)
Dear Puck and Beavers,--My birthday was the 3rd of July. I have a sister
and
a
my brother.
sister's name Joan, and my brother's is Peter. \({ }^{\text {My }}\) (ister is 9 years old; my brother is 6 . sister is 9 years old; my brother
For pets I have a cat and dog. the dog Collie and the cat's name is
Archie. I will close now with a riddle Archie. I will close now with a riddle:
Why is climbing up a stean mounte: like trying to kiss a pretty girl ? Ans.
-Becaues it's hard work to reach the - Becaues it's hard work to reach tho
mouth of the crater.
LAURA REID
(Age


Dear Puck and Beavers, - As this is the not make my letter too long. My father has taken "The Farmer's Advocate" fince last winter, and I enjoy reading he Beavers' letters. it have an old orse; he was given to me for a birthday present. He is 25 years old, and is very wild. I have a sister six years just gone since April. She to achool; she has Tapa has driven me to school likes to go. vember. Our teacher is school since No-
is loonving us this tore. She is leaving us thiseser term. a good one. She
third in June. Tried tor the hird in June. Thuere are 32 scholars
going to our school. Wisting \(\begin{array}{ll}\text { rss every } \\ \text { succerss. } & 1 \\ \text { I will }\end{array}\)


Beaver Circle Notes Some of the little letters had to
thrown into the w.p.b.b because they wh
written on both sides of the paper.
is very awkward for the printers wh

\section*{The Ingle Nook.}
\(\qquad\)



"Jean has begun to take lessons in ofil
paxinting," - this was the patinting," "this was the amnounoement sot that particular ball of conver
sation rolling one aaternoon \(r\) re
\[
0
\]
\[
\begin{aligned}
& \text { she will never have to depend upon } \\
& \text { art for a living." }
\end{aligned}
\]
\[
\begin{aligned}
& \text { through a post-graduate course on on } \\
& \text { ber own hook' atterwards, and now }
\end{aligned}
\]
\[
\begin{aligned}
& \text { Old London, too. II she had held } \\
& \text { back just oecause she hadnt an in } \\
& \text { come, where would her career have }
\end{aligned}
\]
\[
\begin{aligned}
& \text { perfect enthusiast in regard to art. } \\
& \text { reuppose she had enough or the }
\end{aligned}
\]
\[
\begin{aligned}
& \text { divine aflatus. about her to war } \\
& \text { rant her in }
\end{aligned}
\]
\[
\begin{aligned}
& \text { rant her in going on as she did, and } \\
& \text { I am quite sure she would be hap- }
\end{aligned}
\]
\[
\begin{aligned}
& \text { amo quite sure she would bo hap- } \\
& \text { peier piving on bread and mik in } \\
& \text { an }
\end{aligned}
\]
\[
\begin{aligned}
& \text { never come to any thing in art, and } \\
& \text { would find that the ad sed spent the }
\end{aligned}
\]
\[
\begin{aligned}
& \text { nome would be much wiser to } \\
& \text { something that would assure a good }
\end{aligned}
\]
\[
\begin{aligned}
& \text { would have been spent in painting } \\
& \text { lessons on print trom the old mas } \\
& \text { ters }
\end{aligned}
\]
\[
\begin{aligned}
& \text { so far Ethel, the bride ot six } \\
& \text { weeks, had bena stitching away at } \\
& \text { her fancy-work without saying at an }
\end{aligned}
\]
\[
\begin{aligned}
& \text { the dianty embroidered doiley drop. } \\
& \text { JJust here I want to make a cont }
\end{aligned}
\]
all, but was perfectly wild to
\[
\begin{aligned}
& \text { think that it would be nice to } \\
& \text { theo at tew of eve ver own orok. } \\
& \text { Well, I chanced to be in Toronto }
\end{aligned}
\]
\[
\begin{aligned}
& \text { about that time, and had ad chane } \\
& \text { to visit an art exhibit. Some }
\end{aligned}
\]
\[
\begin{aligned}
& \text { paint up ape for my huss in a single } \\
& \text { winter! } \\
& \text { Con you wonder that I I laughed }
\end{aligned}
\]


The Scrap Bag clean taffeta silk. then hang out of doors in a windy place If very much soiled it may be washed
in mild suds. in mild suds. Do not wring.

Soiled straw hats that are beginning may be cleaned as follows: Remove al may be cleaned as follows: Remove all
trimming, Dissolve one or two table spoons oxalic acid crystals in a bowl of
warm water. Wash the hat thoroughly warm water. Wash the hat thoroughly
with this, applying it with a nail brush.
Rinse well in two clear waters a then dry with this, applying it with a nail brush.
Rinse well in two clear waters, then dry in the sun.
Do not wachean combs. drawing a piece of doubled cotton rep TO KEEP LEMONS Keep lemons in cold water, changing
every day, and they will NEW REMEDY FOR FRECKLES. Horseradish root, 1 oz.; boiling water,
1 pint; borax, 2 drachms. Apply at
night. night.
bruise.
Rub a bruise with sweet oil and then with spirits of
likely turn black.

Cooking a steak
Put it into a very hot, dry frying-pan
and brown as quickly as possible. Shat and brown as quickly as possible. Shake
the pan constantly, and turn the meat without prick

Warts-To remove.
Moisten the warts several times a day of washing soda.
TO REMOVE IRON RUST. To remove iron rust from white clothes
cover the spot with plenty of powdered
alum and hold it over the spoil cover the spot with plenty of powdered
alum and hold it over the spout of the
boiling teakettle. boiling teakettle.
TO WASH TROUSERS. Make a good suds of soap and warm
water, and wash the trousers in this, water, and wash the trousers in this,
rubbing as little as possible. Rinse twice in cool water, not wringing them but
letting them drip. After the last rings ing turn them inside out, and pin to tho
line by the waistband in a shady place Use by the waistband in a shady place.
Use nt po clothes po ins so that there
wo sagging. As fast as water collects in the hems press it out with
cloth. Before they are carefully with a hot iron on the wrong
side. Finally turn them and crease

How a Throne Was Won strange and romantic. the land of thaight from
everyday modern life in India comes story that might have been invented by
Scheherazade herself for the entertain Scheherazade herself for the entertain-
mont of the Sultan. It is an account. mont of the Sultan. It is an account,
in T. P.'s Magazine, of how the present
A Gaekwar of Baroda won his throne Gaekwar of Baroda won his throne.
In 1875, after the Maharaja Malhar Roo was deposed, the council sought worthier member of the family as his
successor. Four sons of the house lived
in the city, but the council felt that in the city, but the council felt that
they were all too old and incompetent t
become efficient rulers. In a distant village In a distant village, in a mud hut, the
council found a poverty - stricken family
of the royal of the royal race. In this family were
three sons, each of whom was young three sons, each of whom was young
enough to be molded into a capable
ruler.
to
After some deliberation, the ruler. After some deliberation, the
council decided that one of these boys
should have the throne, should have the throne, but left the
selection to the dowager maharanee selection to the dowager maharanee.
Accordingly, the three brothers-Gopal, Dada and Sampat-were summoned to the
city of Baroda. arrival, they were admitted to the pres-
nance of the maharanee. Her highness asked each in turn why he had come to Baroda. youngest was so awed and bewailcered by the magnificence of the court,
hat after smiling foolishly for a momont, he burst into a storm of tears and
sobs.

Hindu ta deny as any well -behaved He had come to Baroda, he declared, be
cause his relatives had brought hin there.
But when Gopal was asked the same question, he airily responded Baroda.' The maharanee and her councilors wit one accord decided that the youth who
gave this bold reply showed the mos promise of becoming an able ruler of his promise. He was chosen, and there ha
people. He wing an
been

\section*{The Farmer's Advocate'} Fashions.




7361 Boy's Suit, 6 to \(12 \begin{aligned} & 7484 \text { Shirked Blouse or } \\ & \text { years. } \\ & \text { Shirt } \\ & \text { Waist, } \\ & \text { bust. } \\ & 36 \\ & \text { to } 46\end{aligned}\)


7476 Fancy Blouse, 34 to 7350 House Jacket Please order by number, giving age or
measurement, as required, and allowing at least ten days to receive pattern
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The thing that goes the farthest
Towards making life worth while,
That costs the least and does the most Is just a pleasant smile. That loves its bubbles from the heart,
Then, Will drive away the clunfift of gloom,
And coax the sun again. And coax the sun again.
It's full of mirth and aridness too ;
With manly kindness plant It's worth' a million dollars,
And doesn't cost


Alexandpe Dumas: Chef. How completely Alexandre Dumas was
master of another art than that of
fiction, is shown by an Action, is shown by an amusing anecdote
in Madame Judith's witty-and gossipy-
"Recollections." "Recollections." A very sociable com-
many was gathered late one evening at her apartments. \(\begin{aligned} & \text { Dumas the elder, Tho- } \\ & \text { phil Gautier, De Banville, and other } \\ & \text { lesser }\end{aligned}\) 隹 lesser lights were there. After much
conversation and reading aloud, everyone grew hungry. But the hostess had sent
away her servants, and had made no preparation for a a late supper.
"No matter !" cried the resourceful Dumas. "It the cooks have resourceful
weill take their places !" And calling on several of the company
to act as his assistants, he started fragto act as his assistants, he started frag-
ing. Soon he found abundant prove-
sins, among which was a hare.
"Fine!" he shouted. "In half an "Fine!" he shouted. "In hale an
hour we shall have a splendid meal !" Ane he vanished, with his satellites, into
In thirty minutes the In thirty minutes the door leading
from the kitchen was thrown open, and
an extraordinary procession an extraordinary procession appeared.
First came Theophile Gautier, bearing
a large platter of food; then Dumas tired in a chef's full costume, -white
apron, cap and all, - proudly bearing
aloft, the hare; behind came two o abort the hare; behind came two of the
satellites, one of whom carried a big
knife, the other a gigantic fork "I never ate a better dish,", said Ma-
dame Judith.
Dumas was dame Judith. Dumas was a capital
cook. Alter the repast he exclaimed ".Are not literature and cooking twin cook is not esteemed as highly as a good novelist. I am just as proud when
make a good sauce as I am when write a good page.
Alas! ! if genius had not been deflected ross the art of cooking might have made-
What What divine joys would have have vouch-
sated to mankind if Corneille, Racine sated to mankind if Corneille, Racine,
Moliere and Voltaire had turned their
marvelous new dishes talents to the invention of new dishes!"
"Hes is right!" shouted Theophile
Gautier.
a What is the tier of Names.

\section*{A Medieval Household.} nulti-millionaire's establishment, with it scores of servants and underlings, is not so remarkable, after all, if it is comconducted by a great noble or ecclesiastic conducted by a great noble or ecclesiastic
of the middle ages. Take, for example, Gascoigne's account of Cardinal Wolsey's retinue as it is quoted by Mr. F. J. Snell in his recent book, entitled, "The Customs of Old England." After statattendance upon him "men of great Mossessions, and for his guard ghent hosyeoman in the realm," the old chronicler proceeds :
And first, for his house, you shall derstand that he had in his hall three boards, kept with three several officers, priest; a treasurer that was ever a knight, and a comptroller that was and marshals, three ushers in the hall, be"Then almoners and grooms.
"Then he had in the hall-kitchen two
clerks, a clerk -comptroller, and a surVeyor over the dresser, with a clerk in mess together in the hall, also, he had
in the kitchen two cooks, laborers and children, twelve persons; four men of the scullery, two yeomen of the pastry, with
two other paste-layers under the yeomen. "Then he had in his kitchen a master-
cook, who went daily in velvet or satin, with a gold chain, besides two other cooks
and six laborers in the same room "In the larder, the scullery, the but tory, the ewry, the cellar, the chandlery,
the watery, there were yeomen and grooms; in the wardrobe of beds, the sons besides; in the laundry, a yeoman, groom, and thirteen pages; in the bake,
house, the woodyard, the barn, there were yeomen and grooms; porters at the gate, two yeomen and two grooms; a yeoman
in his barge, and a master of his norse a clerk of the stables, and a yeoman of stirrup; a maltlour and sixteen af the every one of them keeping four geldings.
"There were also the officers of WoolLey's Chapel, and the singing men of the
same. And he had two cross - bearers and two pillar - bearers; in his great
chamber, and in his privy - chamber these persons, the chief chamberlain, a vice-chamberlain, a gentleman-usher, be-
sides one of his privy-chamber he had also twelve waiters and six gentlemen who each of them had two or three men
to wait upon him, except the Earl of Der-
by, who had five men. and "Then he had gentlemen cup - bearers, and carvers, and of the servers, forty
persons; also, he had daily waiters of his board at dinner,
twelve doctors and cha te them of his chapel; a clerk of his closet and two secretaries, and two clerks of
his signet; four counsellors learned in the
law. And for that he was chancellor of
England, it was necessary to have officers
of the chancery to attend him for the better furniture of the same. for the lying and up-rising; and at meat he had eight continual boards for the chamber-
plains loins and gentlemen -officers, having, a
mess of young lords, and another of cenClemens; besides this there was never a
gentleman, or officer, or other worthy person, but he kept some two, some three persons to wait upon them; and
others at the least had one, which did amount to a great number of persons.
"'Now," Gascoigne quaintly inquires in concluding his formidable specification, chain roll, use of his house, and what the same, besides retainers and other persons, being suitors, [that] dined in
the hall : and when shall we see any more subjects that shall keep such a
noble house? Wherefore here is the end of his house-

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W.J. Greenwood, B.A., Mitcheil, Ont,, and during Aug. to Dr. J. J. Hare, Whitby, Ont.
\begin{tabular}{|c|c|}
\hline An Unhappy Woman's &  \\
\hline A woman who has had a very unhappy
married life gives this advice to young
women:- & TELEPHONE \\
\hline It cannot be done unless he is under
The woman who permits her heart & DIRECTORY \\
\hline ves & \\
\hline dity & \\
\hline \[
\begin{gathered}
\mathrm{n} \\
\text { on } \\
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\] & Western Ontario \\
\hline roor & \\
\hline & condon \\
\hline & \\
\hline sult that he may impese upon hereren & \\
\hline & Connecting Companie \\
\hline Shun the man who drinks to excess. & \\
\hline & The Beal Tefephone Company of Canada \\
\hline & \\
\hline
\end{tabular}


 he will quite surely find his life sweeter
and richer. To be a little less vague, a man should
form a habit of enioving his
lit
 perous, to have larger business or a bet-
ter position next year, but he should not
let ter postion next Jear, but he should not
let that hope interfer wwhth his apprei-
ating the position he has won for hermself this year .ition he has won for him-
Next y yarr Next year he will have one less year
of life to live than he has this year, and
what he gain of hife to live than he has this year, and
what he gains in success he loses in
youth. Each year he pays a mighty youth. Each year he pays a mighty
price for what he gains-a year of his price for what he gain-a year of his
life-one sixtieth or eightieth of his hife
span at the least, and quite possibly a much larger fraction. In quite possibly a
mpending this
precious thing he sho. precious thing he should follow the busi-
ness axiom of trying to attain the maximum of returns for the price paid.
So, when a man works, let him work
to the best of his ability, and he cannot
work to the best Work to the best of his ability if his
work one day exhausts him so that he cannot work with all his vigor and enthusiasm the next day. And work, after
all, is only one of the important elements in his life. He should cultivate
the power to play the power to play, to make and keep
triends, and to be a bright and attrac-
tive element in hi foll tive element in his family. If he has
young children, he should consider dails young children, he should consider daily
engagements to play with them quite as important as a business engagement.
Their years are passing, too, and he
should should not lose to much time of their
beautiful childhood. His boy has a
right to expect right to expect a daily game of ball or
marbless or a half hour of reading aloud
with his funther fiust with his father, just as his little girl
should find in him a bympathetic play-
fellow in her doll-house. What kind of relow in her doll-house. What kind of
tools to select for the work-bench, the
choice of a bicycle, the "Swiss Family choice of a bicycle, the "Swiss Family
Robinson,"" fairy tales, doll dresses, rab-
bits, imaginary voyages to the Spanish
Main or Viking Land, toy stores and Main or Viking Land, toy stores and
"pretend" tea - parties-all the dear, de
lightul occupations and interests of
children are second in importance to Children are second in importance to
nothing; and the father or mother who
is too busy to enter enthusiastically int this charming realm is not only nolly neglect-
ing an important duty, but is missing the sweetest pleasures which life has to
offer.
\(\qquad\) warmth and shelter and a should have
now, and have a mental atireside
attitude that allows a full enjoyment of that freside.
Your neighbor may have more ser ur neighbor may have more servants
d a larger house and income than you, fa
fo is he reall richer His servants


poetry and art and music, and in the
play and prattle of children, or a stinu-
lating conversation, he has riches which
a millionaire cannot buy with all his In other words, if a man will the breeze-swept hilltop of the present and look about him at the view and find and sunshine of life, he will then find ered and inviting, lies close at his feet

The "Titanic" Disaster and Peace.
By Edwin Ginn, in The Ifrdependent
[Mr. Ginn, the eminent Boston pub
little article, which pe comment this readers. Mr. Ginn, it will be to our to give was the first citizen of the world universal peace.-Editor.] to the cause of I doubt if history records any nobler ( than were board the steamship Titanic. The sole
thought among the any more women and children? "Are there
they must be tis question as be cared for first." The The the steerage or first cabin was not asked.
No preference was shown. be a striking lesson to those who should constantly preaching the indifference of Another great lesson to be drawn from are not bred solely in battle and heroism are not bred solely in battle. The men
who sacrificed their lives at the sinking of this ship had been, for the most part, navy, yet they stood back calmly and certainly come in a few moments. \(\left.\begin{array}{c}\text { Thust } \\ \text { The }\end{array}\right)\) soldier in battle always feels that he has
a chance of life, but the During these that they were doomed. all have been days when the on thinds of this terrible
tragedy, I wonder how many the question, "Why is it that the werd stands aghast at the is loss of thifteen world
dred souls, when the news We field, and thousand men ma lie dead on on or life, excites so little comment?" sorrow and regret, but it makes but a
slight impression upon the community at
large. None of the wheels is stopped; the churches hold memorial
But hardly had the Titanic sank beship lines waves when the various steamOrders were issued to have ach disaster.
boats provenger
boted with enough lifeboats and (1)

\section*{\begin{tabular}{|l|l|}
\hline POUNTRY & AR \\
CIEGGS OII & \\
\hline
\end{tabular}}



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\section*{Big Ben}


Interesting Facts About Our Own Country.
616,000 square miles, while Canada ha
\(3,745,000\) square miles. In 1867 there were \(2,284,702\) bushel of wheat exported from Canada.
1910-11. \(48,802,115\) bushels were exp. The natural resources of Canada ar
her minerals, her arable lands her for her minerals, her arable lands, her fish eries and her forests. These have ont
been developed to a very slight extent When Confederation took place there
were 2,278 miles of railway in Can To-day there are 2,278 miles of railway in Canada
25,400 . The 3,63 post offices in 1867 have grown to 13,32
of the British Empine-third of the are east to west a distance of 3,500 miles 1,400 miles. ond of the present century before that there of Canada would be eighty millions hould is no be reason why the prophec Saskatchewan has an area of 2.50 .6 square miles and a population of nearly
half a million. Its Premier says: "o eputation as the potential bread-bask the Empire is well established."
British Columbia is Canada's large
rovince. It has 395,000 square and is larger than Canada's total ar nark, Switzerland and Italy combined
The Premier Indicate the outlook of a Province whic
within the past decade has fincreesown Oold in population and proportionate
more in wealth is difficult without ing to exaggerate."
"Five Thousand Facts About Canada taining an immense amount of interest ing and valuable information concernin
our own country. It is well worth t quarter of a dollar it costs.
Practically Canada contains all the tance. The coal area alone any impor at 97,200 square miles. In gold an
silver we have untold wealth, and
\(\qquad\)
\(\qquad\)
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orable a cilmato ag Canada, our coun
 many setiers aro coming to con so
from the Une United States, when
con
 and yield 86 an anere, or 10 per cent


 the value of tit. products is is reator than
the agkregate of oll others the agregate of all others. .tr many of
the conntry young men peot the iden the country young men get the idea that
they must "leave the farm" to make their fortune, great disaster must follow.

Hadst Thou Stayed.
By Mabel D. Holmes, in "Forward." Thump ! came a knock at the door.
Janet Harvey impatiently raised her head from her poring over the fat
volume on her desk. pied, and two lines of a frown preoccu-
between her eymered between her eyebrows as she half turned
to the newcomer. your teaspoons, deant-may tate? And for Lou's mother, and I have only hall
enough chocolate enough chocolate, and only five spoons
altogether. Come along in, your everlasting cramming, won't you ?'
All this came in one breath from the
rosy hurried individual in tho rosy, hurried individual in the doorway.
". No, thank you, not to-day, but spoons, and anything else, only please don't call me 'Jen.' Help, yourself-you
know where things are,", and by the tim the door closed Janet was once more pages of an exhaustive commentary the
on
the Epistle to the Romans. always borrowing ; there was no need to
be conser morrow was Sunday, with an Associa-
tion Bible Clase to be tancht cies of Pauline theology.
It was somewhat It was somewhat a matter of pride
with Janet that her Bible class enrolled
the larpest the largest numbers of all those being
held that year. The classes were taught by juniors year. The classes were taught
seniors, and were the
strong point in strong point in the work of the Chrio-
tian Association of Crothers College Janet was pretty, popular and much in
demand with the lower-class demand with the lower-class girls, who
now, lin her senior year, had flocked to her standard, more, perhaps, for the sake
of an hour's solourn each Sunday in her fleasant study, than from an eager de-
fire for truth. But Janet was teacher, and. Sunday by Sunday bee ber
lucidly explained to and and lucidly explatined to a rapt and attentive
audience the doctrines of adoption audience the doctrines of adoption, jus
tification, predestination and the like.
But to-day seless and meaningless ; the theologica iscussions of the commentators werg
ryy reading, and her brain refused to
ork clearly Rap! The knock on the door was
more gentle than Dolly's. A troubled "Janey, honey, may I interrupt you?" he voice was sweet and soupthern."II
wan't get this bank statement for
olecon to come out straight. Janet's economic prowess was famous
among her classmates. The desired explanation, given fully and patiently,
consumed
half an hour and when consumed half an hour, and when the
ittue Kentuckian departed happily with papers, she left her benefactor more alm exterior that greeted the homesick or in search of comfort and chees ent a screne and leisurely was to prent to all


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WHY be satisfied with 15 or 20 bushels per acre when you can double the crop if you try? Those who use the A A. C Co. fertilizers are harvest ing large crops of first quality A-1 wheat, and if you are not yet acquainted with the merits of these fertilizers it will pay you to investigate them. To ripen large crops of early plump grain requires a large amount of available phosphoric acid derived from the best sources

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of the biggest crops ever seen on this farm, following the 1se of 'HOMESTEAD' fertilizers
At Thetford, Ontario, Wilson Bros., say: "We are well
satisfied that it does not pay to sow whent with and Mr. H. Wilson, of the same place writes "" "Et them" I sow a piece withont fertilizer and the difference is so great
I am fully convinced it does not pay me to sow wheat with 1 am fully convinced it does not pay me to sow wheat with out the "HOMESTEAD
At Arkona, Ontario, Mr. J. A. Gordon, Says: "I have
ised 'HOMESTEAD' fertilizer about five years year I shut it off once across the field and my neighbor fait he could see that strip 8 rods away; and it could be seen for two years afterward in the meadow, so I think it pays
Consult our nearest local agent for prices or send your name and address to us and we will mail you free, postage paid, a 52 page book on Fertilizers and
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and must be accompanied by the full name and
address of the writer 3rd. In Veterinarer. questions the symptoms
espeially mut be fully and coearly gtated.
otherwise satisfactory


Miscellaneous
ABSORBENT BLISTER FOR
THOROUGHPIN.
fion in your paper ago I saw a prescrip-
\(\qquad\)
 mercury, and, I think, potassium iodide
and water. I would be much pleased
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
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BOOK REVIEW fertilizers and crops. A new book, "Fertilizers and Crops," comprising vace pages, written New York Agricultural Experiment tion, has just been published Orange Judd Co., of New York now book is a timely presentation facts, not only giving practical methods for using fertilizers in crop growing, but placing special emphasis on the reasons
underly ing their use, and on the conditions of greatest efficiency. prepared for the use of students in agricultural schools, and especially for the larger class of students directly and
vitally interested in the growing of crops. At no time in the history North America has the growing of crops attracted more attention than at the
- esent, and at no time has there been such eager inquiry for reliable information among progressive farmers. The author has kept in mind the fact that a work treating of fertilizers and their thing more on the farm must be something more than a mere collection of
recipes giving the number of different fertilizing materials to use of any crop. The book is divided into four
sections. The fre sections. The frirst part, of twelve
chapters, covers the factors of soil ter tility, discussing essential plant foods, how they are obtained by plants, losses
involved, relation of water to soils and crops, and methods of soil management. composition of materials \(\begin{aligned} & \text { used as therti- }\end{aligned}\) lizers. All kinds of Pertilizers are thor-
oughly
discussed. deals with the selection of materials dor divis diiferent crops, and the tourth the prac-
tical use of tertilizers on individual tical use of fertilizers
erops, including or individual
crops, house crops, nursery crops, as well as book contains an immense the farm. The formation on a subject none too thor-
oughly understod ers. It may be had through this office
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A New book on fruit-growiva. "Boginners' \({ }^{\text {Guide }}\) to Fruit-growing" is
a new book, by F. A . Waugh, written especialy for beginers,
implies, and dealing with \(\begin{gathered}\text { as the the tite } \\ \text { the }\end{gathered}\) questions, which are the ones most often
asked. asked. The propagation, planting, man-
agement, pruning, spraying, and renove tion of the various spaying, and renova-
and vines, are trealt with tres, bushes
 practical viewpoint. It is err, tram a
ing to encon ment in place of of one
general
neglect. . All the various lines of approved orchard
work must be tempts at renovating old orchards often
fail, but the reason is that the person in charge has a notion that the whole
thing can be accomplished by grafting or thing can be accomplished by grafting or
spraying, or by some other one or two spraying, or by some other one or two
partial reforms. In most cases it is not
worth while these unless the whole scheme is to be
put through vigorously and systematicat ly to the end. So it is with all phases
of truit-growing. They must be pushed
at all parts of the business. book, well bound, concise, simple and
complete, tell's how. It is published by The Orange Judd Company, and may be
had through this office at 75 cents, post Doris was radiant over a recent addi-
tion to the family tion to the family, and rushed out of the
house to tell the news to a passing "Oh, you don't know what we've got "What is it?"
"It's a new baby brother \("\) "-and she
setilu settled back upon her heels and folded
her hinds to watch the effect. stay ". "uness so"-very thoughtfully. "ITe's
got his things off."

9 Get Busy With a Baler

 is in demand in the high-priced city markets. This is the hay upon which you make your profits.
The difference between what it costs to bale hay and the increase you get in price per ton, gives you a bigger
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hay can be made as much a big cash crop to you as
your wheat, corn, or oats. All you need is the right your wheat, corn, or oats, All you need is the
kind of hay press. There is money in owning an

I H C Hay Press
An I H C pull power press in either one or two-horse style, or an
power I H engine, will do the work required on any power I H C engine, will do the work required on any
farm cheaper, quicker, and with less attention than any other hay press so far designed.
It has taken years of field test
the best that yours on field testing to make these presses horse power presses have greater capacity than any other horse press of equal size. They are lighter draft and narrowest made. They have step-over is the lowest and narrowest made. They have an adjustable bale tenwith a roller tucker to turn in all straggling ends, thus making each bale neat in appearance,
I H C motor presses consist of a bale chamber and an I H C C engine mounted on sumbstantal sal thacks. The bale dit chamber of the motor press corresponds in size to the


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stanty
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Troy Chemical Co., Trononoonont. Ont., May 10, 1912
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How Does It Interest You? HAT is soil fertility? Why is its lack considered so serious a matter?
Why is it that authorities on better farming agree in considering it Why is it that authorities on better farming agree in considering it one
of the most important questions requiring solution by farmers today? The answer is found in the small average yield of farms in this country
as compared with those of other countries where correct fertilizing is prac ticed, and in the rapidly decreasing quantity of available new land. Ther re two things that every farmer can do, both of which will make his tar
more productive. One is to practice a proper rotation of crops; the other to

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Every farm can be benefited by the uso of an I H C manure spreader. It will distribute the manure in an even coat, light or heavy, as may be
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plete with the strength or field efficiency of the machines.
See the I HC local agent or write the nearest branch house for catalogues - CANADIAN BRANCH HOUSES:
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THE FARMER'S ADVOCATE.
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AUGUST 1,1912

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Homeseekers' Excursions July \(23 \quad\) Ausust 6 and 20 September 3 and 17 WINNIPEG AND RETURN, - \(\$ 3400\) EDMONTON AND RETURN, - \(\$ 42.00\) Tickets good for 60 days.
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the shortestano quickese route be tween the shortest ask quick Ed route
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New Fast Express Service between
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ed Sleeping Cars, Superb Dining Car Service.
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Ar. Yorkton, Ar. Canora,
Ar.
Ar
ar \begin{tabular}{ll}
8.45 am & 6.00 pm \\
7.10 pm & 9.30 am \\
\hline
\end{tabular} \begin{tabular}{lll}
Ar . heslna, & \(\mathbf{8 . 3 0} \mathrm{pm}\) & 1145 am \\
\(\mathbf{9 . 0 0} \mathrm{pm}\) & 700 am \\
\hline
\end{tabular} Ar. Saskatoon, 7.00 am
8.18 am

UPPER LAKE SAILINGS Salllngs from Sarnla for Sault Ste. Marle
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Ask any Grand Trunk Agent for full A. E. DUFF
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they have yet exped
reterences from satisfed buyers of nearly all breeds. NOTICE TO HORSE IMPORTERG GERALD POWELL
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will meet importers at any port in France or Bel-
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Find prench oazch horses. A. Ares. May years experi-
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ence; best references.
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Present offering is five choice young bulls, from
7 to 22 moonths old, reds and roans out of food dual porpose dams, and seired by our champion Scotch
Grey bull 72692 . Visitors find things as represented. Grey bull 7202. Visitors ind
Good cattle and no big prices.
OHN KKDER
JOHN RLDER \& SON, HENSALL, ontario
Fletcher's Shorthorns
 Geo, D. Fletcher \(\begin{gathered}\text { calves at foot. } \\ \text { Erin Sta, C. C. P. R. R. }\end{gathered}\)


QUESTIONS AND ANSWERS Veterinary
ERUPTIVE DISEASE mamma. Her pigs did not do well all
winter, and two of them died from abscesses on their legs.
on its side, and the sow has taken them
on her face. Does this render the pork
on unfit for use?
Ans.-This eruptive disease is a form of h1ood poisoning, the virus of which
appears to be transmissible to the the dam's milk. The cases might be huscess and flushing out the cavities
hree times daily with a five-per-cent.
hreutic
\(\qquad\)
\(\qquad\)


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 Scotch Shorthorn Females for Sale 1 am offering at very ren-


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184 Maple Lodge Stock Farm 1921
 mand my tood bul, some moice Ady Knowe chamion at Toren one A. W. Smith, maple Loige, ontario SPRING VALLEY SHORTHORNS Meed hated buthe two impotat bulle Notion
 kyLE BROS \(\qquad\) Ayr, Ontario
Shorishorns, Berkshires, Cotswolds
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Geo.Gier \& Son, Grand Valley,Ont SHORTHORNS \& CLYDESDALES W. PEtio ha for what yourequire. Clover Dell Short Clover Dell Shorthorns

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A girl of 16 can generally cure her
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out.

 ONAP if the ORIGINAL and BEST HAND
Of all kinde. Will removegrease and diaing
of

QUESTIONS AND ANSMER Miscellaneous.

MEASURING CREAM FOR BAB We are se COCK.



 toll how to Agure your cream?
 per cent., 20; Ibs. butter-tat, 7 Th



 quetion had 87 it inhess if this pir multi-
 20 per cent. gives 71.75 los. of fate
The reamery
calculution is. is. therefore, ontons from semp.
 2. What varity of seed should b sorn to produce gets that will produc
large onions the next year 3. Will any varity ot seded, sown frent
sets in the fall, produce the same onín the next year an theace seed yould it sown Ans.-1. As early in the spring as the and Yealow Wethersarsald. Giant Prizetaker.


 early, and properly thinned and auth
Vated, goodsised, marketalie onions ma it producad the irst yearif trom thons sead It it it destred to produce sets, leave
the onong thick in the bed, and when on proper size, hreak down the tops, pur
and
ary in the unn Plant the Iowing year, and the same variety
onions as the seed soun is produced. Ringbone


 Betwen the hoot and tete onk on on tront
toot, it is swelled twice the normal size




Ans.-Firing and blistering removes the Some cases require a second firing and
b, listering eight or ten months after the first. The horse very often goes ver rame after the operntion, and then a cur
results. Where this second operation
does not
 and blistering would successfully cure the
lameness.

Veterinary
ENLARGEMENT AT NAVEL. The navel and point of sheath of bul
all, three months old, ave enlarged forming a thin, flably protuberance. Ans.-This is due to some local in-
jury, and is not likely to prove serious.
Bathe well three times daily with hot Bathe well three times daily with ho
water, und after bathing rub well with warm camphorated oil. If pus forms,
lance and flush the catity, out three times
daily with a fiveper-ecint. solution of daily with a a fiveper-cent. solution of
carbolic acid.
 the same It was the best they could get. It was a New Rerfection Oil Cook-stove
This year they got a New Perfection Oven Also a New Perrection Toaster
\(\mathrm{C}_{6}\), what a diferecere in the meals a good dove


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THE IMPERIAL OIL COMPANY Limited Winnipeg, Montreal, St. John, Halifax and


> SHORTHEORNE
> Have now a choice lot of young bulls to offer; also with
something nice in heifers.
> list of young animals on applicationd and
> H. CARGILL \& SON, Proprietora, Cargill, Ont

> OHN CLANCY, Manager
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 Spruce Lodge Shorthorns and Leicesters |Ayrshes., Burlington, Ont.


eso
Are coming to the front wherever a A THesmerisures leading exhibitions. Some chorice young bulls for sale, as well as cows anc
beifers. MECTOR GORDON, Howick, Quebec \(\qquad\)


\section*{AUGUST 1. 1912}

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had pains around the heart AND SMOTHERING FEELINGS

Mrs. Wm.Lee, Uhthoff, Ont., writes:"I have taken three boxes of Milburn's Heart and Nerve Pins, and am now well. such smothering feelings that I thought would surely die. My head used to be propped up with pillows to keep me from smothering. One day I read in a paper about your Milburn's Heart and Nerve Pills, and three boxes cured me.
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Your butter will bring a higher price if you use Rice's. It's pure and can
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Mr. Farmer, Listen! Wilson heotal Scale
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c. m .1son

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Holsteins of Quality
 MONRO \& LAWLESS, "Elmdale Farm" Thorold, Ontarlo
Maple Line Moistelns and YorkshiresColantha Sir Abbekerk 2nd, whose dam, sires sam, W. A. BRYANT, Middlesex Co., CalrnEorm, Ont.

Ridgedale Farm \(\begin{gathered}\text { Holstelns-We have tour } \\ \text { bull calves left for sale, trom }\end{gathered}\) bight-testing dams; sired by Imperial Pauline De
Kol, whose 15 nearest dams averase 6 P.20 bor but-


Glenwood Stock Farm \(5 \begin{aligned} & \text { Bul Cal ves, } \\ & \text { fit for servic, } \\ & \text { out of bic milk }\end{aligned}\)
HOLSTEINS
low figure for quick sale. THOS. B. CARLA 8 .
SON, WARKWORTH, ONT. Campeelford Sta.
The man with the strongest opinion
sometimes wears himsell out backing
sometimes wears himself , out backing
them up.
Somehow or other the women who feel
that they were born to command always
\(\qquad\)

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous
wart on coit.

 ing. Could you toll me ansthing that would curo it I I should like to use it.
and cannot until it is removed. Ans. - Try dressing the wart onco daily with butter of antimont?, applied with a
tonther teathor. LIKELY RoUP.






 is a danger tortay olther healthen hired
and the most proftatale means to emple
and
 Separating rib grass



 When gristigs, how many pound of ot
Hourt bran, and shorts, should a person receive per bushel atter the toll has been
tanen oilt
C. R.
c. Ans.-1. In a small way, where only a
Ittue is to be done, a dampened chesese Cloth may be used. The sed is spread is lose, while the rib grass sseed sticks
tightly.
Dampened sawdust is sometimes used. It is mixed with the in-
fested seed, and the rib grass seed, havfested seed, and the rib grass seed, hav-
ing a mucilaginous coat, accumulates the
sawdust. around it. when separation may sawdust around it, when separation may
be made by sieves. There are a number of machines for the purpose in, use, but
they are slow, and not always a perfect separator.
2. There is no standard amount of
flour per bushel of wheat. From 43
low flour per bushel of wheat. From 43
los. to 45 bs. per 60 to 61 bs. of
wheat, is generally reached. The remainder is bran and shorts, less a
waste in milling. PASTURE AND HAY
1. I have some sharp clay loam in fair
俍 condition, at present in barley. I wish
to have it in grass pasture for next year. Would it do to plow right after
harvest and sow pasture grasses? What
mixture would you advise? Would oats mixture would you advise? Would oats
and sugar-cane give larger returns?
2. What is the mixture you advise for 2. What is the mixture you advise
hay. clover first year, and hay next ?
3. What should I put in a small sample of milk to preserve it going to Giuelph to be tested ? R. G. Ans.-1. It would doubtless be more
profitable to rely on the annual pasture
mixture of 51 lbs . of oats, 30 lbs. Early mixture of 51 lbs of oats, 30 lbs . Early
Amber sugar-cane, and 7 lis. of red
clover per acre, sown next spring. Plow the land and work it well this fall in
preparation for the crop. Pasture
grasses sown this fall, would not come grasses sown this fall, would not come
on weil enough to pasture next season
if the grass were not required for nex year, a mixture of grasses might be
sown with a nurse crop. Red clover,
lis.; alsike clover, 3 lus.; orchard grass,
 is the mixture recommended by Prof. C . A. Zavitz, O. A. C., Guelph, where one
crop of hay is desired, followed by pas2. Ahout eight pounds of red clover two pounds of alsike, five pounds tin
othy, and perhaps a couple of pounds alfalfa.
3. \(i\) small tablet of corrosive sub


LAKEVIEW HOLSTEINS !
Bull calves sired by Dutchland Colantha Sir Mona
and out of heifers sired by Count
Hengerveld Fayne De Kol.
Telephone.
E. F. OSLER, BRONTE, ONTARIO

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E. H. DOLLAR,

Noap Prosoott HUEVELTOM, N. Y
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 IVbuter praucion Alato ino the treadidh



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EVERGREEN STOCK FARM Proent offiring: TTMo young and galved; HIGH = CLASS HOLSTEINS tio dam of one of them bing Unichy Abbe sale of the Ox oror district Holtetein Breeders'
Club. Priced right or immediate salec . Hulet, Norwloh, Ont.
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G. W. CLEMONS, St. George, Ont.

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2. W. H. Simmons, New Durham P.O., Oxford Co.

,Woodbine Holsteins - Herd headed by King Sogis Potiac Lad, whone giro'0 The only bull that has sirod five four-year-olds champiou average 30 of the each. Damine ifre ire the
 in the world that thave ired two
cowa. Buls and bull calves for sale. The Maples Holstein Herd

Don Jersey Herd laggie Mechthilde and all from record of merit daeme.

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roiden, Ontarlo
Maple Grove Holsteins Herd he aded
Offera young bulls and heiters for sale; heifon
D. Duncam, Don, Ont., Dumean Stn, C.N.R

Balaphorene A. J. Jerseys \({ }^{- \text {Founde }}\)

 bull of the bre
kind, address
k, BOLERT
 Jerseys B. H. BULL \& SON, Brampton, Ont.


FanMhtm OXFORDS and HAMPSHIRES
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 SOUTHDOWNS
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Your choice of a litter of show quality that will ROBT. MCEWEN, Byron, Ont. Oxford Down Sheep, shorthorn cat-
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 otock, from the best British ported, orfrom imported M. J. Davis, Weadstock, Ort. C.F. R. and G. T. R.
\(\qquad\) Lancherens Hoco SUNNYSIDE CHESTER WHITE HOGS-I am
 W.


\section*{Sheep Husbandry in Canada} Coincident with a number of other ac tive agencies designed to revive the
sheep -raising industry in Canada, ther Sheep-raising industry in Canada, there
has been issued by the Live-stock Branch of the Department of Agriculture a nev
edition of that exhaustive and practica edition of that exhaustive and practical
treatise, "Sheep Husbandry in Canada," which received such a a warm 4 treception some four years ago. This work of 126 pages, which constitutes a report, as we
as a helpul bulletin of instruction covers the history and condition of the
sheen industry sheep industry in every Province, point
ing out the weak points, and offering useful information for the guidance older shepherds, as well as those who ar
just beginning, or desire to tegin, ing mutton and wool. In this work th
author who is trained sheor mat author, who is a trained sheep man
brings out clearly the great advantages of keeping sheep from the dual standand the even prore in cash return one of cleaner farme and better crops
Then there is \(n\) specina section
UFrom
 nopularize the consumption of mutton
and lamb.
other sections deal witu weed destruction by sheep, diseases, wool housing, enemies, breeds and breaing
Reeds and feeding, and other important
maters Different Provinces,", some startling nev acts, concerning the profits made from
sheep, are brought out. It is shown that a flock of about 150 ewes worth
\(\$ 8\) each, after housing, feeding and care
were were charged against them, gave, in
1911, \(n\) pront of more than 8 ono, occurred on a Manitoba wheat far
A special feature of this toulletin many beautril llustrations in sepia
tints, many of which are worth framing.
A larre issue suppliee trree to those who apply for it
to the Publications Branch, Departement to the publications Bra
of Agriculture, Ottawa.

TRADE TOPIC
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 novel features. The main building will
contain many new exhibitors.
There will be goods in process of manutacture,
as well as the tins inhed product, and
any large und coity


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best al ways
Fair.
Judsind there will beang large exhibit of all kinds
of live stock this year. The exhibition
nTlode affords one of the best possible phluces for
buyer and seller to corne together Duyer and seller to come together. The
grounds are taking on the appearance of
Ireparation.
 giving them a very neat bend painted,
vearanal a ver neat and new ai
pearance. Considerable work has bee
done to varios other wuildings, an
everything will be in rention oreryhing will be in readiness for the
openin day.
It stance is required exhibits, privileges, or oc coneessuons ot ot an
Rind applicat on should be made to th
Secretary



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satisfactlon you want in CORN STRAW cutting. Can furnish this Cutter on
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Pickering Station, G. T. R., seven miles. SPRING VALLEY SHROPSHIRES I ami offering for sale shearling and ram lambs, shearling and ewe lambs, of highest
quality and breed type. Prizewinners among thi \(m\). Bred from imported stock. Order early. THOS.HALL,BRADFORD, ONT., P.O. \& STA. Pine Grove Yorkshires \(\begin{gathered}\text { Bred from prizewinning stock } \\ \text { of Engiland and Canada } \\ \text { and } \\ \text { Have }\end{gathered}\) Joseph Featherston \& Son, Streetsville, Ont. Hilton Stock Farm Molstens and| Duroc Jepeey Swine


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"Cholera

\section*{Infantum"}

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Cholera infantum begins with a profuse diarrhcea, the stomach becomes purging set in. The child rapidly loses Pesh and is soon reduced to great langour and prostration.
Cholera infantum can be quickly cured by the use of Dr. Fowler's Extract of Wild Strawberry. Mrs. David A. Cleveland, Apple River, N.S., writes:-"Last September my little boy, four years old, and little girl, two years old, were taken one aiternoon with vomiting spens, and I had Dr. Fowler's Extract of Wild Strawberry in the house, and commenced using it. The cholera got so bad the next day, they passed nothing but blood. I kept on using the medicine, and ina few botte in the house as I don't think there onything better for summer complaint han Dr Fowler's Extract of Wild Straw berry,"
Some dealers may try to sell you something else, but for the good of your child's health, insist on having "Dr. Fowler's." It has been on the market for over sixty-five years, so you are not using a new and untried remedy. Price 35 cents. Manufactured only by The
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Your Wagons
These Wide Tire Stee
Wheels are so \(\begin{aligned} & \text { constructed } \\ & \text { hat they roll smoothly ove }\end{aligned}\)
hot

are absolutely accident-proof-yet cheaper than
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especially designed to meet the requirements of especialy designed to meet the requirements a
the man who wants a light, strong wagon for all
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in some cases free, and in others at 50 any other part of Canada, blessing and waiting to bless the strong, willing setler, especially the man of some capital. stead regulations, special railwayrates, HE. A. MMacciomel Director of Golonization
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\section*{the spice of life}
on imperiment in her spoech our wife ha Peck-"Yes, she gets sleeph slepy about
leven and begins to yaun ". Hard Worker-"Well, Jim, there's lob for you at last., Boss, told me
tell you to see himin at ten to-morro Hard Loafer-"Can't go! I've pron rocession to-morrow.'

A stingy farmer, having married
\(\$ 10,000\) widow, was congratulater neighbor, who said: Good." ally. . . Not quite \(\$ 10,000\), not quit
\(\$ 10,000\). It cost \(\$ 2\). \(\$ 10,000\). It cost \(\$ 2\) for the license." Cannon, at a dinner, said soothingly to a young suffragette:
"After all, you know, there is room for both men and women in this world heirs."'
"It is the woman's work to provide
"It or the inner man, and it is the
to provide for the outerwoman."

Jamie, having come into the possessio of considerable wealth through the death
of relatives, was thus addressed by one of relatives, was thus addressed by on
of the neighbors: th, Jamie, it was a guid thing for
you that your rich freens were born be "Weel," said Jamie, "I'm nae so sure boot that-but it was a guid thing that they dee'd afore me.'

Pat was a bashful lover; and Bidd was coy, but not too coy.
"Biddy," Pat began timidly, "did ye
iver think of marryin'?" "Sure, now, th' subject has niver in
terred me thoughts." demurely replie Biddy. me thoughts, demurely rephe "Way. \({ }^{\text {Wan }}\) minute, Pat 1" called Biddy softly. '"Ye've set me a-think in

A bird dog belonging to a man in Mulvane disappeared last week, and the
owner suspected it had been stolen. owner suspected "ad" in the papar, and in
he put this "an' sisted that it be printed exactly as \(h\) wrote it: "Lost or Run Away-One livver cul red burd dog called Jim. Will show
igns of hyderfobby in about thre days."
The dog came home the following day
"Murdered For Her Money: A Thri ling Drama in Seventeen Spasms," ha
come to the Provincial theater for tw nights only.
The first night saw a fair audience as a storm of booming and hissing. At length, at the end of Scene 4, Act
3, the villain muttered to his scoundrelly
accomplice the greer, accomplice, the grocer's assistant:
anton'
'Hush-not a sound ! Are we alone?' A voice, smothered in a yawn, came Irom the back of the pit:
' "No, man, not to-night; but you will
be to-morrow night 1 ". e to-morrow night !" In the mountains or bonnie Scotland
kilted Highlander ond an American a kilted Highlander and an America
were walking. In due course they came to a basin in the hills from which wonderful echo could be obtained.
Having explained matters to the Yank Having explained maters the demonstrate the Scotsman procected shout, and after
He emitted a warlike sho nearly three minutes as per programme.
"Mon," said the Scot, "ye can't show Mon, said the Scot, "ye can't s.
anything like that in your country."
But the American was Sut the American was not abashed.
"I guess we can." he replied. Why
my camp in the Rocky Mountainy

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    free Enter Free. Enter any time. J. W. Westervelt
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[^1]:    Che flock-heater be

[^2]:    In a talk on the subject of dairy cleanliness, be cut out below the ground line, and a good
    "ean whebster, of the Kansas College of Agricul- handful of salt put on each root. This will kill ture, told a story of a woman who had a sick it. If something like that isn't done, up it
    child. The physician wanted to know something springs again very. shortly, with a determination, had a hath tub? "Yes", she replied; hut she will try again. If let alone, it will accomplish

[^3]:    Losses from Rabies.
    $\square$
    
    

