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# TARMERS ADVOCATE <br> * Agriculture, Stock, Dairy, poultry, or an horticulture, Veterinary, home circle.* 

WINNIPEG, MAN. JUNE 2, 1905. LONDON, ONT

## Editorial.

## Lessons from Calgary Sale

Quality, quality coun
And quality grows,
inight well be taken as the lesson learned at the recent Calgary sale of pure-bred stock. Breedhave not erred uating animals wanting in quality than have the breeders of pure-bred stock in other parts of Canada. Certainly in mo other city in the Dominion could so many bulls, drawn without•selection rom as many breeders, have been sold for so good an average price, sixty-four dollars for over three hundred head, but the supply was overlarge, and that enforced the lesson of the value of more rigid selection. The mistake that breeders have been making universally is keeping for breeding purposes everything pure-bred, regardless of its individual are ant be expected to make good breeding stock yet it is invariably the case that a breeder will offer for sale his whole crop of bull calves. Wivestock authorities and the larger breeders with world-wide reputations, have deplored the lack of courage on the part of their less pretentious workers to make steers of their less-deserving calves, but even these same men seldom set the example they so much wish to see followed. Clearly gether to the smaller breeder
But the breeding of pure-bred cattle is not a ohilanthropic enterprise; it is a business proposition, and the man engaged in it naturally sells his cattle as steers or bulls, according to which will bring the greatest price. In the past the market for bulls has been large ; now, while it is just as large, buyers are becoming more discriminating, and the number of breeders is increasing, so that the struggle for the market is now between produce aly apers will wion hose who produce only a supcrior artice. Henceand on the market, for the price of a second-class steer is fully equal to that of a third-rate bult and if an animal has not that inkerent power to lay on flesh to fit him for the block he certainly should not be kept for 'bull purposes. but a third-rate bull, if castrated young and well fed, is a rule, will make a first or second class butcker's animal
Another lesson for the cattle-brecders is based inon the very frequent statement of ranchers, that well-fitted bulls at show and sale time do not make good sires on the ranges. This statement, although somewhat open to question, bears a grain of truth. The rancher has in mind a principle upon which Mr. Cruickshank based his operations in improving Shorthorns, namely, that
excellence in beef cattle depends upon the ease excellence in beef cattle depends upon the ease with which they can make flesh on a minimum keep this principle befored him buts not always mean that excellence in beef cattle depends upon the amount of flesh they con and, in accordance with this be their herds are frequently made to consume enormous amounts of grain and other concentrates. The rancher suspecting this sort of treatment when a well fitted animal is brought into the ring, seldom bids him up to the malk his condition warrants, in comparison with the unfitted animal, for he reasons that as soon as a well-fed bull is put on the range with only grass to ' $\Omega$ t he will fall of in flesh and present a very sorry sectacle. Un-
fortunately, the purchaser seldom discriminates between the natural flesh and soft fat on a bull,
and this brings us again to the question of na-
tural fleshing. We Fave come to a conclusion based on underlying principles of breeding, that the too liberal feeding of grain in many herds of beef cattle has resulted, after generations of breeding, in the suppression of that natural tendency to make flesh on all kinds and comparative ly limited quantities of food that should characterize every animal kept for breeding purposes In other words, we have developed in our cattle selection and judicious feeding of developing by flesh require heavy feeding to We are aware that this view is not held by mony authorities, but our experience forces the con clusion upon us, and we commend it to the con sideration of breeders.
The Hon. Mr. Dryden, in his remarks, let the Western cattlemen down as easily as he could but it was evident that he was just a little disappointed at finding our cattle so lacking in quality, early maturity and natural flesk!. As a critical observer and one who understands oattle breeding and feeding problems, and the require ments of the beef market, Mr. Dryden"s remarks may well be taken to heart. Possibly he spoke a little ahead of the time, but he clearly indi cated the direction the cattle industry must fol low in order to compete in the world's market. Mr Dryden displayed Mr. Oryden dispiayed a wonderiully quick per ception the situation, pointed ouls weak ment that must be made either by choice or ne cessity.

## Fighting the Mange

ada decision of the stock-growers to dip policy. A year ago there was considerable op position raised to the order-in-council to dip The task had a Herculean appearance, and the stockmen who undertook it with a zest were th a different attitude is shown effects last yenr wero shown toward dipping. Its tages as sur were ion extent that some ranchers would now dip for lice alone. To dipping, as to every other advanced move claim that they should have the option of dipping when they are ready but neglect to takipping consideration that this dipping is being done in the interest of the public as well as of individunts and to be effective, must be done within a limited time. Probably when the scourge of mange is stamped out the time and manner of dipping wilt be optional with the o,wners, but at present, the public good, they should endeavor to ac One statement of the Veterinary Director General, is particularly worth noting, namely, that the order-in-council to dip this year will be will not be tolerated. The stamping out of mange is a matter of interest to all cattle and horse owners in the infected district, and only by At the convention of stock-growers at
Hat it was decided to recomegrowers at Medicine the date for starting dipping at August 15, th and stoch-srowers who have the operation to perform after that to their advantage to begin as som dip--lime and sulphus-is to, be usuly, but a came ortion of tobacco may be added to destroy lice. that it be effective, to raise the temperature of
the liquid to at least 105 degrecs F . A hint was dropped by Dr. Rutherford that possibly a dippin would come into more gencral use for ized larger tanks would answer equally as well as the expected that mange will be practically wiped out of the present-infected district.

## Mendel's Law.

In another column, in the article "New Principles in Breeding," the writer, Mr. James Murray, B. S. A., endeavors to state in plain language the principles of what is known as Mendel's Law. In scientific research natural phenomena are acknowledged to be the result of the operation del, a German monk while certain results. Menhis, a German monk, while experimenting with is garden peas, observed certain regular phenomciples as. Murray explains, and hence the prinare believed to, be the cause of these phenomena largely to-day for Mendel's Law is not generally accepted way, for Mendel s Law is not the progeny of any two parents as a composite aggregation of the characteristics of those parents, having in all its unit characters a certain percentage of those of its parents. But, according beards or baldness in wheat, etc as color in peas, mitted through a parent having ay be transcharacter, without being influenced by that parent. This law, while it may be modified or elaborated by future investigations, helps to explain many things, such, for instance, as a more marked resemblance in certain animals to a grandparent than to either parent, and suggests reason for the phenomena we have always teen ccustomed to call atavism or reversion. The principles of this law, although more generally demonstrated by experiments in plant breeding, e, nevertheless, being applied by a noted cattleW. T. Mr. Mossom Boyd, of Prince Albert, N.elop port-a pure-bed olled Herefords from a polled In these expled Hercord bah, born iẹ his herd. ing this polled bull progeny bore the theristics in the same proportions as set forth in Mand aw, namely 25 per cent ornef, and 50 per cent with mixed character and also that these horned femgles from the polled bull never gave birth to a polled calf after being again bred to a horned bull. Thus far Mendel's aw in the hands of many experimenters has alays held good, and in future it will doubtless and animals.

Words of Cheer to Would-be Clover Growers.
forred agriculturist referred to on page 774 (May 24 th) of this paper one of the most encouraging things to Man late regarding this valuable fodder and nitro gathering plant, red clover. Seeding with a nurse crop is recommended, and good yields are reported, and it is also stated he cecond one-hat he time elover hins lived over ults obtained in the East
With. alfalfa being succerssfuly grown in Alrta, and clover in the Provinces cast of there the system of agriculture in the Wist is being imgrainel he the proyer development of livo
the $\mathrm{F}_{\text {Armer's }}$ Advocate

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## The Crop Rotation.

 outlined a crop rotation, and expressed himself outlined a crop rotation, and expressed himselfas not satisfied witk it, and asked the help of Dominion Experimental Farms Reportion of the give the help to Western farmers that they have a right to expect in the matter of crop rotations.
it is only fair to mention that the flood washed out the rotation plots at Brandon in 1903. It
is significant, or strance, to note in the reports of the rotations as far as conducted that, while there are twenty rotalion plots at each farm
(irandon and Indian Head), embracin. (Brandon and Indian Head), embracing such
crops as soy beans, tares, peas, red clover, alfolf and alsike, in each year these crops were plowed under, which, it scems to us, should not have been done, or, at least, some such plots in the same such experiments as these which bring experimental farms into disrepute with pople who
have to make their livine from their forms As a mere experiment, the method followed probahly fills the bill, but the mission of the farms is mot
only to conduct experiments, but for the sake of the farmers and the agriculture of Canath Nejther at Brandones, such
nance of soil fertility, but the maintenace of that fertility at the least expense or the greatest profit to the farmer-quite a distinction-the former idea evidently being held to by the Director,
while the latter is the idea of a rotation held by the farmers, is what they need and what they are searching for. With the number of plots (twenty of one-half acre each) it should have bern possible to include one on which clover was grown as a fodder crop, another to a grass, and again an-
other to corn, even if soy beans had to be left out. The beans do not mature on the farms, it seems, and even if grown by farmers as a green crop, the seed would need to be imported annually. A rotation (four years) recommended for North Dakota is : First year, wheat, flax, oats or barley; second year, corn, roots, rape, peac, manure, timothy ; third year, wheat, barley, oats; fourth year, red clover, which is seeded the third
year with one of the three cereals, being sown crossyear with one of the three cereals, being sown cross-
wise of the grain with the drill set at half the wise of the grain with the drill set at half the
depth. The grain stubble is left high for the first winter to hold the snow, and stock is not ailowed to pasture it. In connection with the study of rotations, we would urge a careful study of what Prof. Shepperd reports re red clover at
Fargo.
$\qquad$

## Horses.

## Popular Colors

tion: " What are the most popular collowing ques-horse-buyers at the present time, and why should color affect the market vaiue of a horse?",
As, a gencral rule the horse-buying public are not influencod by color fads, unless they see a
way to lower prices by professing a preference for a certain color that the seller hasn't got. Within recent years this has been the case in the large
American markets. Some time ago, when the American markets. Some time ago, when the
color of the Percheren was provailingly gray. than they did about horses, kept clamoring fo a black horse, and, of course, were prepared to
pay a bigger price for any gray horse if his the popularity only black. This, in lime, created blacks will be the rage is difficult to tell, but it may he taken for granted that as soon as the
majority of horses coming to market hecome black there will be a greater, demand for some
other color by those who hit on every opportunity to keep the price down for the producer. This,
of course, applies only in the heavy of course, applies only in the heavy-trait classes. hut he British and Canadian markets color plays colors, bays and bong ago the solid and staving preference, and will most probably retain it, as
black, chestnut and sorrel are considered soit colors, and gray is not enduring conough. Of course there will be an occasional buyer who
prefers some color apart from the ordinary, hut.
such cases are the exception. With fancy horces for carriage pharposes there is quite a comencn
impression that chestnuts or blacks ore impression that chestnuts or blacks are more
popular than havs. hut prices do not subton tiate this helief, and certainly sood horstan-
to mot aske for ansthing hetter than the colid.
enduring bay or liont ber enduring bay or licht brown, as this color is
$\qquad$ Wraws repert from Fingland which said that wrays
where hecoming more nonular for par's drivinlone, as proble first want a cood horse, color hreedine stock of cansinge horsmand all now browns.
$\qquad$
 On the fetlocks and an slaw in the. foce ic.. White
$\qquad$
$\qquad$
$\square$


An Appreciative Reader

## Untoward Results of Castration

The results of castration are either favorabl or unfavorable, normal or abnormal. The nor excessive a dische feg a discharge or serum and pus, and usually morn or leration aries ory in some it is limited to the sheoth, while in oth in some it is limited to the shcall, whire in othris far forward as the brenst. This, howover, newd cause no alarm, so long as the animal cats welt and usually a few punctures or scarifications with a sharp knife will, by allowing an escapo of serum, cause its disappearance in a day or two but when the cords become involved to any great extent, alarming consequences may be appre hended, and endeavors must be made to suppress the inflammation by long-continued bathing with hot water and the administration of febrifuges as four-dram doses of nitrate or potash, three times daily
Some
irritant operators are in the habit of applying of turpentine, sulphuric acid, etc., to the ends o the divided cords immediately after the opera tion, in order to produce a discharge of matter This is a very irrational practice, and calculated
to inflict much pain. There is no necessity for establishing suppurative action, but on the other hand, observe all possible antiseptic precautions as described in a former article on "Castration, which aids rather than prevents the healing pro
cess. It will occasionally be noticed that the lips of the wounds unite by a drying of the serum shortly after the operation, and that considerable effusion takes place into the scr,otal sac, which cannot escape. In such cases the rule
of non-interference must be deparled from and the said union of the edges of the wound and the down with the finger, which has been thoroughly disinfected with a five-per-cent. solution of car ent to escape, and prevents serum that is pres any subsequent formation of colther serum or pus.
The inausplcious or untoward results
tration are: Hemorrhage
tration are; Hemorrhage, paraphymosis, phy rene, tetanus, amaurosis and fistula. From reasons that are impossible to explain any of these conditions are llable to occur, ever after the most carcful and skilliful operation gling operation, or one in which the a bunantiseptic precautions have not been observed, but they may occur in any case, and the operator cannot be held responsible or accountable for the HEMORRHAG
slight hemorrhage for a many cascs there is cases, for considerable time after the operation from some of the severcols or in a slight stream This need cause no alarm scrotum. be kept as quiet as possible and the bleedine will cease spontancously, and non-interforence is ad visable in such cases. When the blood is cscap-
ing in a stream of considerable cize it blending from the artery of the cord it indicates must he taken to check it. This, of course. will occur where the proper instruments have not been used to sever the cord; or, if clams are used it is also liable to occur whore the arplied, but been skillfully performed. In some cases the coats of the vessels appear to be weak, and when cevered end of blood cannot take place at the hecomes engorged and ruptures aliove course cluded end. In such cases the colt should be ocand secured on his back, and the cord secured. easy matter, and it should heen used this is an fresh clam applied above the rupture. When the craseur it is often difficult to find emasculator or fecured, it must he drawn out and severed alon it cannot he secured the scrotum must he. When with batting soaked in a styntic, as tincture of
iron. The side of the sac from is escaping must he firmly from which the bloond
the wound the lips of and The colt must then be allowed to rise hours, when the stitches showsild bo for about 24
hatting and the In some and all cloted blood car, fully removed. In such cases it passes into the abdom the wound the colt is noticed to be gradually getting weaker,
the mucous membranes hecome blanched, and the
mulse Mulse gradually becoming weaker and wiaker un-
it it hecomes imper

The Cloud on the Horizon of Western Horse Breeding.
The discovery of that maiignant disorder of coit, in Alberta, among horses on the range, by the staff of thie veterinary branch, should cause horeebreeders of Western Canada, especially those breeding sallions, espiecially during the breeding season. While it is not the intention of the "Farmer's Advocate" to play the part of ularmist, yet the situation is such that korse-breeders. will need to be on the watch.
When tre insidious nature of some equine discases, such as glanders and dourine, is considered, there can be no great harm done if each and every horseman collstucrs nusal discharges or stspicious and quarantines the suspects. The Health of Animals Report, 1904, contains the results of investigations made, and the following 1 he cause of the disease is a trypanosoma, similar to the surra parasite, and it is conveyd 1rom diseased to healiny animals mainly durng
the act oi covering. The symptoms in the horse are very insidijous. It commnences in a mild man-
ner, attacking at first oully the external genital ner, attacking at inst omly whe externar gental and swellings, then by an eruytion sonewhat
nimilar to netue rash
Finully it affects the lumbar nersous system, causes hertous degeneradeath. Although the horse is able to cover sone ime aiter affiction, there is not a doult that he is unuble to propagate, even though there be barely any cilinical symptoins of his being affiected. The disease is, as far as we know, in-
curable, and moreover, the horse is a source of infection to mares, the latter contingency being an extreme danger, as to anyone without pro-
iessional training, the ordinary symploms are alTessional training,
Inost unnoticeable.
In mares the diagnosis is even more diffult In mares the diagnosis is even more difficult, in the horse. They are, nevertheless, capable of conveying infection from the lirst ons.t of the
disease, from which time they alco ansent disease,
siterile. This it is that makes the question such a serious one to deal with. The difficulty of can be realized only when we take into consideration the number of mares in out ing distri ts
which are seldom seen by anyoue accuainted with the disease, and, if they are, fail to show any symptoms to an ordinary observation.
Every precaution is, no doubt, being taken, but the incurabiiity of the discase, the fact of its
rendering animais sterile in the very early stages, and the impossibility of sas ing derinitely to what extent it exists among the mares of the country,
render it a decidedly difficuit matter to combat. The above disease was found at Lethbridge, The stallion presented a general unthrifiow pearance, was quite emaciated, eyes and nostrils weeping, scrotum thickence and of a douphy conpenis just below inferior border of prepuce. plaques showing, but owner gives history that
plot would indicate that they have been ire mently in
cvidence. Meatus highly influmed constant drip-
 fort. Of the firty marcs, about firten are quite suspicious. Several show vaginal discharge and
defective inuscular. co-rdination. ${ }^{\text {Several }}$ had

two well-defined plaques. In adidition to the
symptoms, whick were in evidence, we have the history of a large percentage of abortions. The following regulations irom the ord r-in-
council, of July 8 , 1904, should be studied and 4. No entire horse more than one ycar old
shall. shall, arter the passing of this order, be per-
mitted to run at large on unfenced lands in the Territory of Alberta, or in that purtion of the Territory of Assiuiboia 1 l ing west of the uhird failing to comply with this or,der shall be deculed guilty oi a breacli, of these regulations and of the 5. Any entire horse more than
found running at large within the area dear old
above, may be seized above, may be seized and held on the order of departument, who shall forthwith, whenever this sible, notily the owner of the said horse of such seizure, and the said horse, if not claimed within no indemnity shall be allowed to the ouner in case of damage arising out of or resulting frot said castration, seizure or detention.
Compensation is now paid for hors s filled on account of dourine or glanders by Dominion Gov ernment inspectors (there are no district vetcri
narians now in Manitoba), and there is no texcuse for concealment. Be patriotic, and notily the authorities of suspicious cases, to harbor dis-
ease is only one grade below harboring a

Prevention and Treatment of Joint III (Navel III) in Foals.
handur beurg a tempts are prevely succersfius confined to any cowley but same to thrive tol pecially whe horsels. sime foaling occurs indoors. navel string (umbilical cord) should be tiot wit a ligature oi strong, soft thread, well soaked a solution of carbolic (1-20) or corrosive subli painted with some protective preparation, such as collodion (1r ched, keep lighted lamp and added one-tenth part of carbolic acid or iodo mate in one thousand of metinytated spirits, or Che following: Carbolic acid, 2 ounces; camphor
2 ounces: resin or shell aci, spirits, 15 ounces. to have terimals infected and not willing to do stroy theml without all attempt at cure. As the
ords are long a cainst recovery risk of heroic measures-" kiil' or cure", ase th said. A four-per-cent. solution of formalin, injected at a number of points over the swelled
joints been known to liave an excellemt fifiect so has five-per-cent. chinosol lution, and the like strungth administraticn of antiseptics in doss sthert of bernal poisonous is worth trial. Twents to sixty drop and two tablespoonfuls of water, nisht anly morn ing, or dram doses of chinosol in a few ounces of water, may be given. Whiether or not the internul treatunnt is tried, we may quite safely,
and with some hope of success, if not mu h daily and with some hope of success, if not mu h, daily
rub the enlarged joints with glycerine of of iodinc Which is a penctrating preparation of iotine that
does not readily blister if frectu -mily emploved


## Care of Horses.

tance of being regular in feeding exchanne connt be . .avestimated. If an mgish rets its Cood siven reaunily it will be much Not only is the fime feding important, but the quantity is equally so : starving them one time and gorging them another, is the surest way to bring on disease, and to unfit a horse for remen performing its daily work. It should be nd mered that the horse has a small stomach, hree hould therefore
All horses seem to have a natural disinclinahon to eat up what has lain beiore them for some time, so if as much food is placed before be better relished and a saving effected.
Keep their mangers and focding troughs clean, nd allow no accumulations of filth. When horses re feeding see that they are disturbed as little hoise induce for to be upset by hast of bolting their food. See that horses have a sufficient supply of
fresh water when in the stable. An animal fed on old hay or dry food may appear to be quite satistied, but when a drinh of water is given it
will oftentimes begin to eat with renewed avidity. Water should be given to Lorses before any-
thing else in the morning, and one hour should elapse before they are brought out to work. This will ensure them having had sufficient, time to get When at work in summertulue and when the horse is turned out in the evenings onto the pastures, the stable has then a good chance on be
coming sweetened and aerated, but when the stalls are occupied most of the day and the night through, it is doubly umportant that the No show worth his clean will sweet. to remove the droppings at least once a day, and twice will be beter still. See that the stall is well supplied with litur. It is, however, a mistaken
idea to think that the more straw there is pilce about the horse the more comfortable he will be. not allow rubbish to accumulare beter. Do manger. Piling it at the head of the stall is very objectionable to a horse stunding in the stable, as foul ammonia gases are given on, besidi In addition to making the surroundinves of the animal as clean and wholesome as possible, it is necessary to give attention to the cleanlinoss of
the animal itself. Grooning and cleaning should receive careful attention, and on no account should the work be scamped. Observation luads mana iorm the opinton that this part of stable
managent does not recelve the attention 1t once did, nor as much as it deserves.
The feet also requirc
has been out on a wel day, espocintly a ceain land, the feet will be tilled up with earth, which Do not forget that exercise is essential to all horses when they are standing in the stable the put new life into him, besidus promoting his general health. No horse can be expected to pull
a ton weight to market or a ton weight to market or bring homo a similar
quantity of stuff if he has stable the most of a week without having inc out of the stable door. Exercise should, thereCore, be given some time during the day. of course, there are generally a few odd jobs to do
on the farm, which, if all the liorses get incir on the farm, which, if all the horsses get their
turn, will make cxercise less nccessary


The New Home of the International Live-Stock Exposition, Chicago.
Demensions, 310x600 fiet; seating capacity of amphitheatre, 10,000. To be finished Oct. 15, 1905. Total c.ast, 8300,000 .

## Breeding Fancy Horses

$\qquad$ ousiness. Would you allow me to have a little now that horse shows are becoming so comino appears to me both feasible and likely to prove by promiscuous breeding operations. The founda tion stock of a show-horse breeding establishiment must comprise approximate perfection. The pro make his selections from stock farm will need to as have won a reputation for individual familie lence. Many families are renowned for extreme speed, and as fast Ferformers have been the best pion speed performer, rather than a champion Daniel Lamberts. Mambrino l'atchens and Clavs were celebrated for faultless proportions. Mam nown in the show-ring, as well as the sires te speed. If two sires were selected of the most approved type and from families of natural equin beauty, and bred to the right kind of mares, and a show breed of animals might be established, Mares that produced superlative offspring should be retained in the harem, and dams that dropped only ordinary-quality foals should be discarded reasonably within the purview of possibilitios is could not be consummated in one equine generation, but a course of experimentation within the principles of methodical selection will assuredly attained as the development of the rresent brends Intelligence and perseverance, with the profer roundation stock, will establish a breed of show animals as certainly as other breeds have been laws of reproduction." nares as the writer refers to, and then introducing carriage horse can blood, the very best type of pure-bred Hackneys in some respects better than cross of trotting blood would give a little the stamina to the offspring, and the Hackncy would

## Stabling and Feeding Horses.

 End Care of the Horee." se at the Central Experimental Farm, said, Agricullors stable must be economical in space, as it it will be
lound much easier to keep $a$ small stable warm the large one. It must be conveniently arranged, in order
that the horse trouble as possible, and he advised a soparate bullding, order to secure light and ventilation more casily Mr. Grisdale showed a diagram of what he considered were shown six stalls, six feet wide om eed room should be divided into two compartments, in space left for the rough fodder while arranged, and be kept for a mixing room. It was a good plan to
have a stove in the harness room the farmer to keep the temperature of the room suffe harness, etc., without unnecessary labor and inconand was also thought advisable to have a sal mize labor coneth feenng roum. Twe would econo recommended planks over a cement bottom, leaving a
small space batwean . Whout the planke, made a good toor, alley in tront the not recommend having a feeding or space. The windows should be sliding or hinged, in order girat Forty to forty-five degrees was mabout right
mit air. well-ventllated stable was less liable to attacke of distemper and pneumonia chan one kept in a poorly-ven
tilated building. Mis digeotion and healt wouta also bo bettor. For bedding, cut gtraw was one aconomical to use it without cuttinger, it was more great deal more to bed a horse when cut than in its What value was sawdust? It is very economitcall, but and. Heavy clay is about the only soil that will be heavy blankets on hors uring cool weath
Erooming is essential.
leen minutes before getting their grain. In the avening they should be given all the water they could drink about two hours after they had finished their feed.
Under ordinary conditions about one pound of roughage and one pound of meal per day was sufficient for every 100 lbs . welght of horse ; that 18, a horse weighing 1,300 pounds should receive 18 pounds of hay and similar amount of meal per day. Mr. Grisdale recom-
mended feeding about $1-5$ of the hay and $1-8$ of the meal in the morning, the same quantity at noon, and the balance in the evening. The horses should not have more hay put before them than they would eat
with rellsh. Cut hay, with the meal mixed in it, Mr. with rellsh. Cut hay, with the meal mixed in it
Grisidale said, was about the best feed for horses.

## Stock.

## Treatment for Contagious Abortion.

The above discase is so on the increase and so on the subject is given here in condensed form and in a manner casily understood
I will give you, he said, in the briefest manner possible, an outline of the treatment I have adopted for the past fifteen years, both as moment claim that it is infallible, neither do rge it on anyone I have no , arsonal advan tage to obtain from its adoption. I can only say I have found it an invariable success. I give (crude) carbolic acid three times a week if necessary. My mode of administering it is This: Take the requisite amount of acid-tinat is ine in order to make a perfect add a little gly cerine in order to make a perfect emulsion, mix with each cow ; then add the bran, mix thoroughly and divide the mash equally among the cows. In to the smell of the mash, and in such cases which is the giving her a quarter ounce or less, this, get a cow to take at a time. In addition to this, all cows should be frequently injected with mate as recommended by Noch as corrosive subliprefer a coal-tar disinfectant, Jeyes' Fluid (prac-
tically creolin), for instance. should be given at intervals of a fortnight, dur ing pregnancy, up till within six weeks of calving.
In any case where abortion is suspected to be in In any case where abortion is suspected to be in
the herd, the bull should be carefully disinfected
after, serving each cow, by injecting the she with a disinfectant solution. injecting the sheath. I have also found excellent results, as a prethe cows, after milking, with a solution of Jeves' Fluid (creolin), 1 in 30 . This is easily done of preventing the germs of abortion from enterQUARANTINE AFFECTED COWS All cows that show any signs of approaching aiterbirth and discharge should be burnt, as well The vagina should be flushed daily until all disquently) for three moway, and afterwards (fri-
the carbolic acid mont before being bred awain the carbolic acid mashes being given alout three
times a week. I was discussing the question of ahortion with
a veterinaty surgeon the other day, and he mon
tioned a herd whin the tioned a herd which he had claye and he monwith a chinosol solution, and finally correcting ing the cow again. I understand this treatment
was a complete success. If so , it seems quite simple, and well worth tryine. so, it seems quite
In conclusion. I should like to say a word as calf, which. I think, is movel of the new-horn me dressed with a stronped disinfectavel-cord sholution. the cord, and thus prevents the entry of germs, produce various kinds of scour. There are strong
grounds for suspicion that the grounds for suspicion that the germ of contagidentical, are very nearly related, and anything the untiring attention of catilemen.
Tt is significant that Mr. Peters' sugensions in the way of treatment were nom, suggensions

## The Dual-purpose Cow

## your Farmer's Advocate

old chord-that is, it is old in countrife Kave gone through the ordinary course of agricul tural evolution, which Manitoba, the North ves Territories and British Columbia are only now starting out on. In the article to which I :efor you say . The Dairy Industry Must Flourisia. Yes, indeed it must; but will it by conducting a dual-purpose business? Are the new farmers and wheat men so hard to teach that you want whem gradually to work their way up over the gener: purpose route to a cow that will produce butter Wour fou adise a man to try to raise another Dan Patch by starting with a general-purpose horse? No ; I know you would not by the ad and Germon sall and good, and the same line should be followed with the cows lio start with bo beghing and her reputation by roising a dual-purpose wheat I think not.
From your editorial on the dairy I had a feeling that you were trying to break the news gently and let the man who does not want to hang onto the cow's tail down easy. But be to wake him up, and tell him to get would pure-breds of known butter quality. Start in at once with what he has to come to eventually, else why have pure-breds in anything One class of is so seldom that the two are combined that when butter tells you that he has the best strain of exception that proves the once kinow he owns the producing beef cow is not the rule, where is the profit in raising anything but what will produce but of what you have got by the use of the Babcock test, and then leave alone the grade bull, courserage in their line, and when the bunch of stock evolution hits you a good sale to the other ielbut, and you will increase jour knowledge butter producing at the same time and own one
of the finest milk breeds in existence. system whereby big, heavy and porsistent met a Wiil you not have to start a new breed sters. of course, would be possible, but hardly probable when you remember that the improvement of any the best brecds of ali kinds of also that many of with the nation occupying the country in which Under your invitation, " Suggestions How to
Improve the ' Farmer's Advocale,", mprove the 'Farmer's Advocate,'" I might say of my copy, have remarked, "There is nothing $t$ that suits us in B. ©., but only teaches th. wheat man how to grade his wheat." Personally,
I find a great deal that applics in all countries, and appreciate the paper. "Could you devise a
page that would take "Fruit in a Frui country, and cover the cleaning of land. Also,
would it be a possibility to find a really rood in Utah, to write a series of articles to find him be a boon to us who live in a senis that mioh Westbank, B. C. E. NANE D. DE LAUTOUR. LNote-Our correspondent's criticism is tem
perate and friendly, and as such is welcomed a he shows a real desire to improve things. We misht ing, the "Farmer's Advocate" believes in lairyevolutionary, rather than revolutionary. The ly worth engaging in: it, will and con, is hardwitherth engaging in; it will have to be ranked he denied that by careful selection the bannot vinced that by using only the bige strong, per-
sistent. heavy-milking cows and brueding pure-herd buils, a most marked improvenient the special dairy-bred animal, suck as suited to
nel Tslands breeds arr nel Tslands breeds are. It is suiferent in British pastures more succulent. There is, however, one hing the prairie farmer cannot afford to overbunk of the dairy hreeds it is of the calf; from a
what Mr. Simmins value. Note "hat Mr. Simmions says in issue May 24th, and Martin Flynn on Shorthorns. The great
, after all is to preach the gosnel of the
rnination of the weed tho monar

\author{
\author{

## Very Much Pleased

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## Parents' Influence on Progeny

Dealing with living things, with animals
lants, we have yet so much to learn of the reason why we get certain results in our daily work, in the dark, and playing at a hit-and-miss game in our breeding of animals and plants. A great deal of time and much energy has of breeding that would enabie olle to carry on his some idea of what to expect in the offspring. Very little systematic work has been done, however, henters and obsorvers have been most sucrecssfiul in their effiorts. As a result of this we at pres
an ent have at least a partial understanding of the
laws of nature that govern the transulission of haracters from one generation to the next. Whal we know, while only a snattcring, is enough
ndicate that there is much yet to be discoverec and that patient and careful work will be re-
warded by the discovery of mure of nature's ruths and of her ways of working wonders. For our present knowledge of the principles of
heredity credit is largely due to $a$ German monk called Mendel, who lived and worked in his garden about forty years ago. He discovered and gave
o the world what we know as Mendel's is only about five years since the results of his researches really came to light, as through their
early pullication in a somewhat obscure macazine, they were soon unnoticed, and it was not until 1900 that they were rediscovered. since that
time his resulis have been verified by various
Mendel worked largely with garden peas. He selected plants having dinerent and opposite palar seeds, long and short stems, full and constricted pods, white or gray seed coals, etc, and crossed
the plants exhibiting the opposite sets or charncters with one another. The plants produce rom the cross-bred seeds were allowed the no
seacon to fertilize thenselves, and taken on the proportion of the dificrent types of
plants produced. The seeds of these were agail Plants produced. The seeds of these were again
cown and the $n$ iture of the plants carefully watched through this and succeeding generations In the first generation of the hybrids Mende
found that a certain proportion exhibited the character of the male parent, and in succeeding Eencrations produced plants of that hype only
The same proportion exhibited the character the female parent, and the remainder were of an intermediate or hybrid nature, although having the appearance of belonging to one or other or'
the two classes already mentioned. In other words, a cerlain proportion of the offspring weri
Fure-breds after the character of the male, and in future generations were incapalise of prodacing
anything but individuals having this character in a Furc state. About an equal proportion trinsmitted the pure female character. The hylmitis gradually split up in succecting sornerations into
individuals exhibiting the pure wale or the pure cemale character.
In speaking or male and female characte:s, it must be borne in mind that only one set of unii characters is reierred to; 1or inss ance, in wheats-
the bearded and bearchiss characters; and in animals, the hornecd and the polled characters the To take for; the purposes of illustration in polled and horned cearacters, according to Mun-
del, although he did no work with these special characters in breeds of animals having horn there is always prestit a latent rossinily of a
polled animal appearing; the horiued character i: "dominant," and the polled character "reces-
sive." In cach germ cell or the male and of the iemale there are present the two elements that
go to proviuce the offspring
 any evidence of horns appearing; in our hound
lireccls, the opposite is the casc. So lone, ther lirects, the opposite is the case. so lung, ther.-.
fore, as horned animals are crossed with hornoll therinw aupearing: that "hen a horned animal erosecel with oric that is polled, we mave have ond of three profuct d-cither an aniural with a purr-
hovine: character and carable of producing, with
 molled propeny; or hylrid stock that would , wrai-
nalls, in inture qennrations, split up into riduals whititing only the two pure characture
Animals need not hate any appearance of hefine other latent or recessive. It will thas be foun

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[^0]bearded plants the beardless nothing but pure beardless, and the hybrids would split up in the proportion of two hybrids, one bearded and one
beardless. In subsequent generations the proportion of hybrids would gradually decrease, and
the plants with pure characters the plants with pure charactens gradually be
differentiated. In other words, and according to the language now more commonly used, in the course of a few generations the characters would
become fixed. One of the great differences be

G. neral Linevitch
mender-in-Chief of the Russian army in Manchuria. He is sixty-five years of age, hale and
and is the idol of his men.

ween these principles of breeding, as enunciated or Mendel, proven by various othir experimenteriy accepted, is that all the progeny of a cross was considered hybrid in character and would
continue to vary for a number of years, but according to'Mendel the characters of a fixed proproportion of a choss are fixed as firmly in the second generation as in the tenth. A vigorous selection in the second generation would viduais that couid not possibly produce what was required. But even with what Mendel has given as as the result of his elaborate experiments and working along simit lines, ine dor others been opened to a tield of unlimited expanse for u.seful work. The principles that apply exactly to one kind of plants may be different for an-
other, and again dillerent with animals. There aws that undery doubt, however, that there er from generation to generation. What we hei spoken of day after day as prepotency, atavism explained. It will be the busmess of the animat and plant breeders in the next decade to get at

The Argentine Government Has Become Suspicious.
me comments on the large number保 the have failed to pass the tuberculin test -some 77 in three months, whereas previously from 1898 to 1904, only 412 were rejected. The quotation below, from our contemporaty
-" We agree with our conteinporary that some thing is wrong somewhere. Were all those slaughtered passed before being shipped? Are our vetcrinarians so inefficient that they fan to It would be interesting, and indeed useful, to have veal the truth or otherwise of the tuberculin diagnosis. Our representative in that country
should have imunediate instructions that in al cases where an animal is condemned for tuber culosis a post-mortem examination be conducted by the highest authority procurable. It is indeed have jumped to such large numbers so suddenly 'ro those " in the know" it is not at all surprising that rejections should have jumped so but it is surprising that the Argentine authorities oing on more quikly. It bee dian Government two years to take measures to stop it, and by so doing avoided putting temptation in the war with the writer as to kow they conversation beat the lest, said, "It is no use being mealy" mouthed about it, I admit it has been going on right along." As long as the craze for certain in their choice of catule and as lang ang buyer demanded of those cattle, so long will be found fellows trying to beat the test and the official administering. A little common honesty is the undertake to beat the test is just as likely th fake a pedigree., In the words of our Scotch ahout it," if the miserable business is to ber

## Rearing Orphan Stock

During the spring-time the farmer is kept among his live stock. When all goes well with among his live stock. When all goes well with youngsters thrive apace, and the labor of the death of the mother cocur, and But should the be impossible, then very frequently the process of bringing the orphans up by hand has to be re sorted to. Lambs take more readily to hand strong and healthy they are almost sure io thrive; if weaklings, they might go to the wall in any case. It is very necessary to remember that that the and often is the rule to observe, too much kindness, or rather, by too much by The women-folk usually take the work in haid and with no little success. The lamb's feeding quently scalded and be kept clean, and be freis usually twisted round the spout of the which the frequently renewed, as it will otherwive be come foul and ill-smelling from getting soaked
with milk. If used in a dirty state, it will be Select a cow the quality of whose milk can ho depended upon as good, and do not change will be far better than feeding them indiscriminate ly with the milk from any cow. The better the
milk, the better will the lambs thrive. Ewe's
milk is richer in all solids than cow's milk. Add warm, as thougl it were newly drawn from th

Young pigs are
by hand as a general thing, but this method is often practiced with success. The small farmer and so any trouble involved is not minded. It is not worth while bothering with weaklings, but in the case of valuable stock and strong, lively Here, again it is ther tom cow all along, and to choose one who gives good
milk. The milk of the sow is very rich. feed warm, adding just a small portion of sugar and often" should be the motto. oil. "Little and In the case of a motherless foal, cow's milk, with a teaspoonful of sugar, and half a cup of
warm water added to each pint of milk, may be
successfully used.- Agr. Gazctte.

## Farm.

## rarmer VS. Professor.

 interest the analysis tro Tror. Reynolds. Guelph, of the two soil-moisture theories a vanced in the "Farmer's Advocate." The periment he performed to show that moisture arises in the soil by capillary or molecular attraction has been the refuge of nearly every one Elase moom haw We are taught in a book isks beecaule untenable. Agricultural College, uhat, .". In dry weather the moisture at or near the surface of we soilher goes
 the water from the subsoil rises ty capililary at
traction io take its place., II those who wist
 weather condition, we may get at the science soil moisture, and be able 20 give a rational
scientitice explanaiton of the lest age to control the mois ure supply. The onnell neent, con box wilh a suieve supply.m, The experi
mill wild with soil, this, soil saturated with water, then dry
earth applied, draving moisture trom the muday surface, is simply jugling with nature; and
proot that molsture over the amount trat can hndd by the soil particles, in $a$ a state of of nature
he 0 dry weather, is still present.
 onto nature; whereass he shooldd have first clisescly ouserva nature, and modelled his experiment aci
cordingly. The sieve bottom cond underarains. The soil in the box has thens torosity of soll in in the state of the box hase not the
pinaces

 "aaer-logged soil, than one from which all tree
water was renioved. The tral and in applying


 the surface downwards, , like any oulure old porouls
thing, we would ind
 ${ }^{1} \mathrm{Trom}$
 the surfaci, It appears to me thater thys" in But he says, "Such onstrated take pla a faut


 Professor, ,1eans ,ly this-whit ther the oreurtrence tions;
ditions casoning is in hot I tuo kurav the that this ment now of Absorpion fiom that arborladen yoil-nir nieght





field, and an abundant food supply in the soil, its sugar a content similar to that which it had when the im
provement in quality was commenced, about a century
ago. In our trials with high-grade beet seed we have ago. In our trials with high-grade beet seed we have
found the sugar content of the beets reduced from over 15 per cent., when the crop was given proper attention to below 9 per cent., when the beets were grown on weedy land under wrong cultural methods, and weeds were left to grow up with the beets.
The beets are thinned when three o
formed ; the thinning is done three or four lent cutting out with a sharp hoe all the plants beets, i.e intervals in the row so as to leave small blocks of beets cne to two inches long, which are next thinned, leaving If the rows are 24 inches apart, the beets in the row. should be somewhat closer than this
The cultivation of the field is continued until th beets nearly fill the space between the rows, when the
field is "laid by" until harvesting time, going over it once or twice hand-pulling, single weeds that may have escaped attention. In our State the best fields are generally laid by during the middle o July or before, leaving the beets nearly three full
months after this period in which Harvesting may begin when the leaves assume a mature, yellowish color. The best harvesting time varies with the character of the seasom; ordinarily the beets are sufficiently mature by the half of September in the outhen n part of the State to be acceptable at the fac be improved considerably, under favorable weather conditions, from this time on until frost sets in. It is, in general, safest to plan to have the harvesting finmay be thrown into piles in the fiold covered with leaves or dirt for protection togainst frost. If delivery is delayed until after November 1st (when the factories pay 25 cents extra per ton of beets), they should be thrown in large piles and protected by a three
to four inch layer of dirt. They will keep safely in this way for a limited period of time until safely in rush at the factory is over, when fall plowing and other readily had for delivery the way, or when cars can be far away from the factory to haul the farmer lives too The expense of growing an a arre of beets is supposed by many farmers to be very heavy, on account of the quire, and this heeps them from taking op sugar-beet

The Point of View. were planted at least two or three weeks later than can
ordinarily be done. Early planting is advisable, so as
to secure a long growing period and make it possible to
thin the beets before hot summer weather sets in. The field may then be "laid by" about July first, or before, and the beet roots will be in position to go down
into the ground for water in case of midsummer drouth.
The argument against. early planting is the The argument against early planting is the supposed danger of frost in spring or early summer, but there is
no serious danger to beets in this respect, since the young beet plants are quite hardy and prow yory the in the rows, so that no harm is done if a fow plants
are nipped a little by frost. Fall-plowing ficld is of importance frost. Fall-plowing of the beet growh of weeds in the field, and renders possible carlier spring infltience of fertility of the soil. that is in a good betate of forlytility. Sobils on that and are not adapth1 to sugar lieets; a judicious system of sultivation of cropse or commercial fertilizers, and by curre is meferably applied to the crop preceding beets,
or if applied directly to the hefore the land is plowed, so that the manure the fall thoroughly decomposed in the early summer. It will
then readily yield upip its store of fertilizing ingredients to the beet roots when these are ready to make use
thereof. Green-manuring, by means of laguminous crops, is advocated by some writers, for the purpose of in but where suficient live stock is kept to of the soil eral, under ordinary farm conditions in this state
 In onder to reach the bist results for factory pul sulsoiled. Fall plowing, wowed deep, and, wrefyrably reforrecl. The sed is phanted in rows alw inches an are
sine 18 to 20 pounds of seed to tho


soils preferable for sugar beets.
ther best kind of soils for beets are medium soils, That are well drained, and phowed and subsoiled to considerable depth, preferably 16 to 18 inches, so as to ing rots the deevelop symmetrical, gradually-taper dence of too shallow plowing or a heavy packing of
$\qquad$
$\qquad$ with satisfactory yields. The treatment of the soils
wity

## -or as ho ane, and especialy the harvesting

the beets, become more difficult in the case of heavy
clay soils. Humus soils are less adapted than loamy soils, because they are wet and cold in the spring, and the growing season of crops planted thereon is, there-
fore, late and shorter than with soils rich in mineral components; the beets grown in humus soils are also grown in other soils, sugar and in purity than those organic matter humus soils of the large amount of shown in experiments conducted tion Farm, that beets containing at least two per Staof sugar above factory standard may be grown upon such soils with proper fertilization and cultivation.
The character of the season will influence greatly the comparative value of different soils for sugar-beet culthe advantage ; in a dry and hot season heavier kinds of soils and bottom land or humus soils will produce ever, be obtained in almost any kind of rich well-drained soil, with the right cultivation and proper attention
given to the crop.
dates of planting, thinning and harvest
The majority of the farmers forwarding reports of their last year's experience in beet culture, planted their
beets about the middle of May, say between the 10th stated, 20th of May. In the north, as previously cical acquaintance change your views, as I have a on the prairio in the older West, whose pioneer farmer
is over, who seem to him to-day has a well equipped farm, it ma promising variety of grain ; he then will be enabled have at the least one stack of grain for the thresher ploys expensive lator the least cost. As a rule he em up to his full capacity during the growing season. considers it is cheaper to buy it, and the experiment so for the whld benefit, and what is good for him is good awhile and But hold on right there, let us reason farmers in the older West make a your error. The district Manitoba is settled like their own mistake in territory within the last six or seven years a great developed, all within Manitoba's now rapidly being mostly a bush country, and to those who have lived young man who goes into that part of Manitoba may he applies forss settler, but have mighty little cash. If is entitled to it. I do not believe (because inink he pounds are abused) that an intelligent (because a few
flies for a sample will abuse it. Who apsides for a sample will abuse it. When a man con-
all been expensands to dollars, foresight and skill have all been expended to produce some promising variety,
all directly for his material wellare Whaority of farmers would appreciate it. In regard tu The improvement of seed that comes from these samples,
I make the assertion that far more first-class seed is
sold amongst neiphboring form sold amongst neighboring farmere first-class seed is
known, in which the porent known, in which the parent stock was a three-pound
rample from Ottawa. In my own particular distrin ne most of the barley grown is Mensury, all first pro duced from a sample in 1901. The only mistake I can as not been asked for. In the first place, if they know
he man and a report has luen rendered grain did, they are safe in sending it to such a man ;
he, in his turn, brings the Experimental No to his neighbor's door. For my own part, nuw. grain that I want to try divect from the farm, if y. unilling to see the new settler deprived of be Whe some trouble is willing to put up his to to get a good strain of and

## Spring Conditions in B. C.

Mr. Thomas Cunningham, the Frovincial Fruit ipector, has just returned from an inspection interesting things to say about that fertile region. According to his observations, extending over a number of years, never before has he seen the Fraser Valley look better than it docs this year. he grass is most luxuriand wime in the pink of condition, giving evidence of imfream and milk from different points show of cream and milk from different points
that dairying is in a prosperous condition.
Nicomen Island, which was almost abandoned few years ago, is now well occupicd with prosperous dairy farmers, who are receiving very satis-
factory returns in cash every month of the year. This is great improvement on the old practic of selling hay once a year by poor fellows who had been buying their supplies on credit, and seldom realized enough by their annual sales of hay to cquare their accounts. The dairy business has to put down for any supplies they may need, and their land, instcad of being exhausted by con-
tinual cropping, is being enriched by their wellFraser Vatlle. This is true of every section of the dairying, for which the land and climatic conditions are more favorable than in any other part Canada
lected, is now Valley, which has long been neand farms that have been held at prices far below their intrinsic value are being bought up. The area devoted to hof-growing is also being inreally building up the country on safe lines. The City of Vancouver is growing so rapidly that it will require every acre of land in the
Fraser Valley to keep the local market supplied Fraser Valley to keep the local market supplied farm, such as bacon and hams. All these are cash articles, which are necessary to life, so that
the Fraser Valley farmer, has a safe and sure the Fraser Valley farmer, has a safe and sure business for all time.
In this connection,
In this connection, it is interesting to note the Maple Ridge Creamery Association and the Valley Dairy Company in Vancouver, whercby the former has agreed to hand over all its produce
at market prices. The creamery will send twice a day to Vancouver 1,000 gallons of milk and 100 gallons of cream. The cold-storage creamery of the Association is kept at Port Hammond, which, being situated both on the C. P. R. and the Fraser River, is a most convenient point for
collecting. The Valley Dairy Company also keeps a small steamer of its own on the Fraser River, which will move about from point to point and
gather the milk from the farmers at the most gather the milk from the farmers at the most
convenient hours. From present appearances no harm has been
done the fruit crops in the Valley by pests, and as the season has been unusually dry pollination has been perfect this year. A bumper crop of fruit may be expected, and unless all signs fail,
we shall not suffer as much as usual from fun goid disease. generally have too much : but the spring has been lo a great deal of good. May 18th, 1905 .

| Windmills on the Farm. <br> The farmers of this country are rapidly awakening to the Pact that cheap power and improved machinery are one of the conditions of success on the farm, as in nearly every other industry. And why not? Farming is the greatest industry and ought to be conducted on the most improved and up-to-date methods. The more chcaply the farmer can do his work the better he can compete with wheat. growers in other countries, and the more money ho will make for himself. Why should a farmer haul his grain several miles back and forth to get it crushed, granary, bestdes securing the convenience of having power at home to run any machine ho may wish to at $t_{\text {tach }}$ to it? <br> That the windmill is the cheapest power no one will deny. The poople of Holland were about the first to harness the wind and make it do the work that others were doing by hand, and the first windmill we know about was made with four long armis, or sails, and about was made with four long arnis, or sails, and many of them are still to be seen doing their work in <br> England and other countries. present state of efficiency by the untiring energy and made, and made, and are making to-day, more windmills and bet ter windmills for lesg the world, and to them justly beloncs the credit may be properly nsked, what should a windmill do, and what size should one buy? If it is for pumping water only, a gix, cight or ten foot mill 19 sufficient, the size |
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o use varying according to the dert th of the well and
the amount of water to be pumpel. An eight-foot mill, the amount of water to be pump
with a thirty or forty foot st satisfactory pumping outfit for ordinary purposes. For power purposes sufficient to do a farmer's ordi
nary work, such as sawing wood, running mast grinder, cutting straw, etc., a
geared mill will do the work. wishes to run an cight or ten inc
custom grinding for the whole better buy a fourteen-foot mill,
windmill to do impossibilities a windmill into the bargain. The care of itsel is thinking a twelve-foot mill will do as much work as they will ask it to run a ten and sometimes a twelve inch floor grinder, and that when there is very littly
wind ; then they oil it when they think is not very often, as they have heard some fad about graphite and bronze bearings running a lifetime with out oil, or some other nonsense which does not work out in practice, and are only talking points, and
they think any old time will do to oil the mill, the result being they often come to grief, the mill breaking down-through their rompet-but they never blame though their neightays the mill that is no good, al though their neighbor has one just like it doing good
work, the only diference being one man looked after true, but I have seen more pumps and windmills spoiled for the want of a little oil and attention than I have seen worn out. In conclusion, let me say to the reader
If you want a good and cheap power on your farm to do your own work, then a windmill is what 1. Buy from a good, reliable man, whose guarant
rth something.

Buy, if possible, from general agent.
Buy the best, not always the cheapest
tended it to do. heavy castings and strong wheel, with long antli-fictio babbitt metal bearings; they are the best (ninety-five per cent.
bearings).
11. Take good care of it. Oil it often; tighton up all nuts occasionally; keop the bolts tight and your
machinery in good condition, and you will prove by ex perience that windmill is the cheapest, simplest and most useful plece of machinery on the farm.
Brandon. CATER.

## Protection Against Lightning.

Aready stock casualties through the agency or lightning have been reported from different farmer to take such steps as he may to nvert calamities from this cause. It will be noticed themselves about trees or in a corner of the field close to the fence. In the latter case, if the fence be wire, the chances are that, if any part of the fence be struck, a number of the cattle are erly grounded. The reason of this is that, while wire is a very good conductor of electricity, the wooden posts are very poor conductors. The current thus runs along the wires seeking some means of getting into the ground; the bodies of the cattle being better conductors lanan the fence posts, afiord in order this condition, take pieces wire, connect each one closely with the wires in the fence, then push the free end down three to that it reaches moist earth. The connection mas be made either by wrapping the wire round each
strand, or by stapling it to the fence post in such a way that each strand of the fence will be
brought in close connection with it. In inserting the wire in the ground, simply dig down, say as far as possible. Pull the rod up and fill this hole with water, and proceed in the same way until a depth sufficient for the wire has bech reachaf fifth or sixth post, and if carefully done this simple precaution will transform a dangerous wire fence into an excellent lightning-rod system, which will prove an effectual safeguard to all ani-

Opinions re Subsoil Packer Requested

ment. Let us hear from our reallers their ex
perience with. this implement:
"Have any of your readers had any experimen
in using the subsoil packers which are on the
market, if so I would like to hrar thrir exproi-
ence and the henefit derived, if ally; also when
'the erain is up, not? As the spring is a dry
one, would it pay to buy a subsoil packer, count
one, would it pay to muy a sulson pacher,
ing their cost, which is $\$ 120$ ?

## Crops and Climate

The following observations upon plant adaptation
are from a bulletin by Prof. A. M. Ten Fyck, of the Kansas Experiment Station: Three principal factors largely determine the value of a variety of any cultivated crop, namely, yield, qual-
ity, and adaptation, and the last named is really the
deciding factor which deter eciding factor which determines whether a variety may ries, perhaps in no two sections of the same country or state, are the plants subject to exactly the same Conditions of soil and climate. One section may have a slightly different soil, a little more dry weather, and
the plants of this section vary to adapt themselves to these conditions. If the plant is removed from its native habitat and planted in a diferent part of the
vorld or country, in a different soil, surrounded by diferent conditions to those which it had been accusto a new environment to which it is not suilted. Thus we can understand why a good variety of iruit or grain
does not always give so good results in all places, and we should expect a variety of plants orisinating from the plants of a certain region to be best ndapted for
growing in that region. Or such plants may be ndaptod for growing in any region having similar conditions of soil and climate. We find a demonstration of this principle in the fact that wheat and other grains brought for growing in the western plains region of Amarica, which has a climate and soil very similar to that of the countries named. The Turkey Red wheat, for in atance, has largely displaced all other varieties of wingreater hardiness and productiveness, and yet some of the varieties which it has succeeded had been grown in the West for many years, and seemed to be fairly well dapted to Western cifmatic and soll conditions. This uperior hardiness and adapta sur which the Russian Western country may be largely credited to the centuries of training which these varieties have had in an environment almost fdentical with that of similar latiudes in the West, while the varieties which the Russian been gradually moved from the east farther west, although many of these varieties have gradually become moro or less hardy and fairly well adepted for growing period during which they have beon grown under Western conditions, apparently they have not become ern conditions, apparently they have not become so
hardy and well adapted to these conditions as the Russian and Turkey varieties.
We have growing throughout the West a largo number of grasses and native grains which are fully hardy
and perfectly adapted to the conditions under which they grow, and we have neglected to a large extent to develop these native grasses and grains. One of the urgent needs of Western agriculture to-day is fer domesgrown for pasture and meadow, and in rotation with other crops. Previous to the introduction of Bromus解 western portion successiusly throughout the central and dapted, especially for the extreme western and southern parts of the state; also, in some soils it does not
seem to thrive well. $\quad$ We ought to develop domestic grasses from our grasses. These wild grasses are just as capable of producing valuablo cultivated vartotios as domestic grains and grasses which we are growing today. This work is belng undertaken by the botanical department of this experiment station, and although ittle has been accomphished thus rar, yet the work is in time valuable varieties of cultivated native grasses will be developed.
Probably more has been done along the line of developing the wild fruits of America than with any other has ben slow and costly. In speaking on this subject. Prof. N. E. Hansen, of South Dakota, the great fruit brceder of the Northwest, says: "It has cost considerably over one hundred million dollars to determine Southern States whmon came originally from Western Furope, cannot be successfully grown over a large por-
tion of the northern Mississippi valley, and many thouion of the northern Mississippi valley, and many thousand dollars are being spent annually in every state of farther." Troesion in or plan is to develop the fative fruits, either by selection or by crossing the best native varieties with the cultivated varieties, tule aim the size and quality of the cultivated varieties.

As a noted worker and authority, I quote some of the thoughts and facts which Professor Hansen has ex-
Treessed in his writings and in the bulletins of the South Dakota Fxperiment Station, as follows : "T The wild fruits are already superior in hardiness, ns summers and
winters of many centuries have acclimated them and weeded out individunls of insuffcient vigor. " We must create a neweraity.
ties familiar to Eastern fruit-growers are tender and
worthless on the open prairies of a large part of tho Northwest. . Planta mild, moist coast climate are not allapted to a dry
ontinintal climate. Mnn adily ndapts hmmelle to such enivironments and finds the climate salubrious, but

# Effect of Soaking Turnin Seed in Paraffin 

 and Turpentine.butter. The more distinctively the individuat of these granules is marked in the mass of butter, is shown by an appearance texture of the butter when a mass of butter is broken in two transversely, and when a metal is passed through the
butter, as a knife or trier, if the butter be of the best texture, no particles of fat adhere to it The texture of tre butter is deteriorated if the particies of butter are churned in too large mass-
es, and in the process of working the individual particles are made to move upon one another too high a temperature. The mere warming of the butter to a point approaching the melting point destroys tre grain upon subse fuent cooling, even though the mass of butter may have If the er
ripened, the cram is thoroughly and uniformuly and the churning more complete than when creams of difierent degrees of ripeness are churned totime to time, the completeness of separation varies with thie size of the granules of butter. That is to say, if the granules have reached a ce
tain size, it does not always follow that the fat tain size, it does not always follow that the $f$ at
has been removed from the buttermilk to the same degree, so that the size of granules of butter is not a certain indicationna completeness plete the buttermilk takes on a thin, liuish, "atery appearance, quite distinct from the thicker
creany appearance of the unchurned cream, and the churning should be continued until this cundition of the buttermilk is reached, even though the glanules are increased in size beyond the the buttermilk. The higher the temperature from which the cream is churned, the creater the a (entage of fat left in the butterinilk and the more Cakein will be incorporated with the butter.-

## Keeping Flies Out of the Dairy

## , Mr. W. Becker, of Mlinois, says

Have every hing clean and swcet-sine'ling ings. Ha:e screuns fur every door side surfound and a good spring for cach door, so they canno Pull down shades when cleaned up
to darken room, then open door. With a
stam hose and sten to drive what few come find can do good work ery (it should be screen, leading into the cream spring). Have every room dan goud door and through the screcns. The swarm of tijes in th mighty quick. "Then close outside weith toor door or screen. I find where there are many shade cry to work in, and the fly nuisance a creat deal In boiler room I dory with no trees and shade. tanglefoot fly-paper 1 have many flies. I have and best work. In fly time I keen shes the most aown and rooms dark in afternoon shades punced and lies out. When night comes I raise all
shades again. When hoound the doors outside, It feed them hanging the
poison they want in the aftenne

## A Costly Cow

The Coiorado State Supreme Court has affamous Stevens-Smith cow case, which was begun hey's fees and cound has cost $\$ 2,500$ in attoroow was $\$ 30$, and sho costs. Thas veen the value of the carcens placed the cow in a pasture yelten. of the pasture sold it with his hernia the owner Stevens pasture sold it, wih his herd, including
returned to R. M. Smith. When Stevens eturned he demanded the cow, offering to steven, or her pasturage. Smith refused toring to pay pay her u:p, he will carry the case to the Federal Supreys
Court, if possible. Grading Cream
ecome adapted
ion, nothing w
introducing


Hrown ssed
$\qquad$
$\qquad$

The Packing of Butter.
The important part that proper packing plays in This is a point to which the judges in the Department's purprise
petitions


The two kiels and the keg on the left have notched or rilght have twigged hoops. present condition of English markets the packing of butter has ence on the price received. In this connection
noted
it
it $\begin{aligned} & \text { may be } \\ & \text { different }\end{aligned}$ markets require dilfer ing. Inquiry as to paokage desired should,
therefore, be made betherefore, be made be-
fore arranging for lore arranglng for the
despatch of butter. If butter is to be properly packed it is ry, well-ventilated and well-1ighted store be avallable and dirty stores frequently cause mouldy growths on the timber and parchment, and much injury may thus be done to the butter Packed in such mnterials. The wood used for sutter packages should be thoris recommended that all packares should be made up and well atred some lime before their use. Hon has been precauHon has been taken
the wood strong odor, the bad effects may be lessened by heating the package thoroughly,
and paintling the in and painting the in
terior with a thi coating of melted paraffin wax, using a soft brush for the purpose.
Each package should contain as
nearly as possible the nearly as possible the quantity required to fill it, as considerand frequent loss are
 occasloned by the use of insumfiently filled
packages. A filled packnge travels better than one
with room to spare. 14 lls . each, and kegs not less than 7 lbs . The grooves for the 1 ld and bottom should be well sunk, and the ends of the staves around the lifd sultably bevelled off. The hads and bottoms should be made of strong, well-
seasoned timber. There are two methods of inlishling the hoops: (1)
twing : (2) notching or locking. The " notched


On the left are two boxes whose sidos are made of two
pieces. The jotnts pieces. The joInts are marked
to show the "break." On the right are two boxes with
two sides made up of three two sides made up of three
pieces, with jolnts marked to
show the "d break, pieces, with joints marked to
show the " break.." Dlatance between the joints is from 3
lo 4 inches. hoops from rods of two years' growth The packaces The packages are quarter bound, and twelve hoops are
recommended. Very strong " quarter ". hoops are unsultable, befng, as a rule, badty "shaped," and they do not grip the staves securely.
The properly-made notchel k
long journey and be sultable for re-coopering if necessary In the merchant's stores, and will preserve its neat and
cleaß appearance. Short nails may be used to secure the top and bottom hoops in position. None ar
needed in the other hoops, provided they are properly
coopered our. Long nalls tear the parchment and caues them an a sling in order to reduce the insinty
rust spots on the butter.
Timber for these should, as far as possible, be free from loose knots and resin; and the pleces tongued and grooved, planed both sides, five-ighths inch scanting
for 58 ibs...

o klels turned so as to show the finish of the top. The one on the left is slovenly ; that on the right
is neatly dono. should be accurately cut, in order that the box when made shall be close in all joints, and without any por-water-tight as posstbie. Tlmber cut for making boxes and if the sidos consist of more thonitied scantling, should be of such widilis that when the box is made


Four pyramids turned over to show
finish of tops. Lower one on the left shows the proper finish. row boards, thus preventing the weakening of the box ny having the joints of the sides too near each other at
he angles when the box is nailed. Inattention to this principle renders probable a liabillty of the upper por(ion of boxes being parted from the lower through tha
rough handling they recelve in transit. The most sultable nails for the sides of the $56-\mathrm{lb}$. by 11 gouge. Filght pails at steel wire nalls, 2 f -inch each side, and of these

For ${ }^{\prime} \mathrm{t}$ wi appearance. straight half hoops can be conveniently used,
bopt the rods of which thiey are made should
be of three years' growth for kiels, and
two years kegs. The binding
should neatly.
The hoops used for

Freak. the bottom 12 and top, 11 lach by 12 gauge nails are
suitable, six in the ends, and in the case al the bottom two each side. Boxe
dovetafled at sides and without nails are suitable timber where
can be obtained at a
reasonable cost. Clips and handles
are not necessary are not necessary for the present system of carrying
hutter when the boxcs are made of sufficient a and stalility. The box should be wrappied in a canvas cover in order to protect it from dirt in transit. $\Lambda$ uncovered boxes, glving as reasons: (1) That the car

olls, withont half-pound
edging.
 A very badly parked
pyramid box of butter turned must have chet must have heen
viously ${ }^{\text {a }}$ coiled " materlals for these hoops are unsuitabta
For kiels the 6 . half hoons hoops of three years growh
and for kegs
 closely ontlon the box,
and sa secured the and sa secured that
the cartiers cannot ung
them an aling. In order to reduce the liability of
talnt from the wood of packages, it is advisable to use a llaning of strong, heavy parchment paper. This should be made from
white in color-all tints
are objectionable: it
should almo be tree
rom filling or weight
ing materlal. The tex
ture should be even,
and bright shining specks (due to holes in be visilile when a shee
is held between the
eyes and a mudorate
light. A suitable parchment paper should not
show fiber on torn
edge. When wet it
should be quite as
tough as when dry,
pulling. For kiels
parchment paper is re
quired weighing not less thari $35 \mid 40 \mathrm{lbs}$. per ream 480 sheets, each measuring $30 \times 20$ Inches ; the same
weight, but cut to $20 \times 26$ Inches ts necossary for 50 it pyramids.
The keel, keg. or box, should be thoroughly ecalded over a steam jet, and afterwards scrubbed on the inside with clean cold salt and water. The parchment cut to a suitable size should be steeped in scalding
brine the nilght before it is to be used, and allowed to remain in
the brine till the brine till next
morning, when it whll be cold and ready for use. The
should
be lined with the damp
parchment parchment paper.
avolding creases and bare spaces. The quantity of butter to be put into
the packages should be weighed out ac-
curately, allowing lb . extra for a $56-\mathrm{lb}$. package, and 1 lb . for a $112-\mathrm{lb}$. package. Small quantities only should be put in at a
time, and should be well pressed against the siden and


Top box on left contains 24 one pound ralle; bottom box contains 4 lb .
lumps wrapped in muslin. On the right the upper basket contains 8 lb . box 8 lb . lumps wrapped in muslin.
into the corners by a heavy packer. Great care shoul

ower on left 1 lb . rolls on end-thts box a little arge. On right is a box of prints. Note the erforated paper edging which giveg a neat appearance to theme packages.

 aped, but the box is far


Box of 12 two-pound rolls. Butter is made up in brick shape, and owing to the box belng too large the but-
when turaed out oll the shiop counter, should be per
 printa, Conidiorate demand exists for butter made op in

 if essental that the butter tor theos poca ages shoul The welght of each plece should just turn the ceale.

 up through over welght. The best. plan is to decide
what allowance is to $b$ be


 cwt; may easily occur through caralesenness in cutting ing machine, such as Bradtordt' tor morceks, and L Lister's Tor rolls, is useful for shaping. A piece of wet mustin strot ched over the bench glves the best surfaco to shape
 smooth sawno tumber," and are not planed
24 of 1 lb . or $; \mathrm{lb}$.; each print should containing 12 or ed and impressed with a distinctive sharply outlined deHece, and wrapped tom parchment. The boxes should


 One pound and $\ddagger$ lb. bricks (often called rolls) are wrapped in parchment paper, and, as a rule, put int

 tully on end in the box, which should hold the cexact number without leaving room tor shaking In tranat
The The parchment paparer should bo of the same quality as
that for Kikes, but of
Niphter wet
 purchasect cut in in quarees of exact tize tor packitina, and

 but ter ise "Frean,"" "Mild," or "Salt," and with the
registered trademark of the creamery 0 , When the bricks are wrapped in parchmont paper
only they are laid flat in fico up. The box should bo lined with a greasen-prod
 ox, and follodod over. That packagese may bo sealed by pide and Hyd, the endst of the cord helng thentend in the
 Butter in + lb. ". Rolls ${ }^{2}$ it

 piececs of paper with groasopprof papor, and having four
on to to the inside edge of the box and and folded odever
The






 depth or the box, are packed on ond, tho mustin (tudtur over and $a$ borad presed on the ends of the rolls till
it meets the stides of the
 retinn their shaper and than travel box beoter. its found that the they





 Labels should to nt turnered securrely to to tho pachage
 injuro the contents ot the partwer should toe to producen



Two good things

The Dairy Calf Crop
That dairy-bred calves are nit only for vealing
purposes is a recognized fact.
Once feeders could be found with sumblient temeri ty to develop them
into beef, but that heef was into beef, but that beef was so unpopular with
butchers that the practice of maturing dairybutchers that the practice of maturing dairy
bred calves has all been abandoned. Calves have been marketed in such numbers at Chicago as to furnish an index of the rapid development of the dairy industry in Indiana, Illinois, Wisconsin and
Iowa. It is a movement that sugreasts the breedIova. It is a movement that suggests the breed-
ing of beef calves as an avenue to wealth. Good future calves will be worth money in the near ing them and at decent, prontit added. - [Livestock
World.

## Poultry.

## Best "Paying" Hens.

do not "pay"I allke. Some are among the most proftable assets a farm can have, so far as comparative difference between cost and production goes; others eat pecies is of most been undertaken at have cesults of those made aus experimeat stations. The pelow, and may be of wat the Kansas Station are given tain what species is llkely to thive who wish to ascerof the rocent sharp discusslon in the "Farmer's Advoarticle must ho of tmealy intseret diferent breeds, this bulletin, which covera the firat half We quote from the " The fowls in the contest made an oecollent
laying record, and the results compare favoonably egghose of previous authantic egg-laylng contests. Bith veriormances could probably have been made had it not ways accompany the carrying on of contest hastance, the transportation and frequent handiog of the fowls, their adaptation to new and strange sul oundings and confinement to smaller yards than they had probably been used to, all of which tond to diminish the egg yild. Beside this, the winter was the most severe ever known in the State. However, the houses these conditilons but were wintered were built to meet fortable quarters if a larger number prided more compen had been furnishe
notes "The following is the list of competing birds, wit
" First pen, Rooe comb White Leghorns.-These were of condition at the beginining of the contest, but out covered and gave excellent results through the winter
They were not They were not affected by the low temperature as
readily as the Singlecomn whe this pen became sick in the early part ons. No. 3 of ailment being what is commonly called February, th and the pullot died the last of March, and was replaced
by No. 6 on Arill 5 th "Second pen, Llight Brahmas. -Thase bldrs have
been in the best of condition up to the present tume The small egg production carly the the peasesent tme explained by the fact that they are slow-maturinus be the egg yield foll during the Leghorns, in all pens, condition of the hens. All broody hens were promptly removed to a strango pen to break up this condition ." Third days were again ready for laying. sists of hens, while all others entered were pullets. This
was due to, was due to an unfortunate misunderstanding, and is
manifestly
unfair to the breed considered to be poorer winter layers than pullets. The
hens were inclinco to over-fotnonesp
". Fourth pen, White Wyandottes.-These pullets hava . "Fitth pen, Amerlcan Reds.-These pullote.
Ing when shipped to the College, being the only and laylng at the time. They leitd heanvily the only ones
1st, 1905, when several January Inying. They are more Inclined to molted and stoppodin
Iness than any ot her breed in the contest.
. Slxth y yen, Buff Wyandotes. done well up to the present times
.. Siventh pen, Singlecomb White Legliorns.- These cold than any other breed. No. 6 , sulderm the severe 17th, and was immediately replaced by No. No deed April the value nocompanying cont table gives the eqg yteld and sults, inclucting the bronding periods, fare complete re-
 indi dualy of the hens aris conterserence should prow

$\square$

 Whte wyandottes.


Total. $\overline{352}$
Monthly
Now Feb., 31; March, 139 ; April, 101. Total, 352.

 buff wyandottes.

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No.
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$2 \ldots$
3
4
4


$\qquad$
 haughter arer ation of chinge because he gave his
 has 861 in the bank, and also 2 no chays that she nend of the four wears. He also says that at

Possibilities in EgglProduction. Mr. James Long, writing in the Farmer's
Gazette (British), says : English Utility Poultry Club's competitions, as English as the competition in New South Wales, in which as many as 220 to 250 eggs had been laid within a year, or an equivalent number in four winter months, to say that he regards such
figures as almost incomprehensible. There are no doubt, many persons who take the same view, and who look upon 158 eggs as a large number to be laid by a hen within twelve months. In this case the writer believes that seven eggs laid in fourteen days iny hens of the thent work, and he points out that at least twelve weeks in the year are non-productive, so that, taking forty weeks as the period which
would cover a hen's laying season, we get 140 eggs as number is excellent, and that were it common throughout the whole of a flock of birds it would pay extremely well. Unhappily it is not common by any means, and so in this country laying 140 eggs on the average the average is nearer to 80 . What with the period of moulting in the autumn, and the cessation of laying in the winter, owing to severe weather, it is quite poshen in the poultry-yard is still longer unproductive. I cannot for a moment find fault with my correspondent's suggestion that 150 eggs is first-class, but he makes his own remark on the
basis of the results altained in his own poultryyard. He says: "I have al this moment 23 pullets, hatched in April last year, kept apart.
They have been laying cleven weeks, \&nd only since some three or four weeks have they laid from 58 to 68 eggs per week, or practically three
eggs per bird, which would be equal to 120 in eggs per
the forty productive weeks of the year." Now we
come to the more crucial point. My correspondent says, "What can be done with birds hatched say. They would commence by the latter end of August, and might lay right through to the following July, a period of 45 weeks, although
they would not lay three eges per week during the whole of this period." That is the result of daily set down, and a balance sheet made each year. It is precisely this question of carly
hatching which touches the spot. Nobody supposes that the hen after her first vear will lay early-hatched pullet which commences to lay in August, or thereabouts, and which continues to
lay with more or less frequency until the moultlay with more or less frequency until can mot date
ing time in the following year. We cannotit ing time in the commencent of the laying year until the bird commences to lay, at which time she pos-
sesses a specific value. After commenciny to lay. we date forward twelve months, and it is the
early-hatched pullet that lays a batch of eggs early-hatched pullet continues to lay through the winter and the it is these pullets which compete in
best work. It connection with the ditily Pours Culb
which were employed in this year's laying competiwhich were empled the Government of New South Wales; and, after all, an average of four
eggs a week is not a very serious thing to coneggs a week is not a very serious thing to con-
tend for in the case of an early-hatched pullet. especially of the non-sitting varieties, but. cur-
iously. it is the sitting varieties which usually:

## Profit in Turkeys.

 In view of the high price paid for turkeys, itis at first surprising that so lew are raisedl but this, of course, is explained by the dilliculty which
nany experience in rearing them. liet, if some can raise them as easily and with no more mor-
tality than is common in chicken-raising, oth r-s could do the same if they knew how.
The first mistake made by beginners is in the choice of stock. Some breeders, in working for
fine color and great size in a breed, have neglect
and vilality kose and stand in dark creamery, and blow steani
the first thing he should seek to know about the stock he buys from is whether or not it is vigorselect for vitality first, and all the color and
size he can qet with it; but an 18 -pound tom
which is full which is full of ginger and action is a mu h
better bird to breed from than a sluygish 25. . pounder: for getting the young poults through
the first few weeks of their lives is where the
difficulty lies, and vial Ahen. to varieties, the Bronze turkey is too well known to need comment. The white formath for the burfit of country where wide rance was shut of hy wator it has developed a quieter disposition than other
turkeys, and while it takes to tho range it domes turkeys, and while it lakes to the range it doms
not wander so widely and does not have the will!-
hird instinct which leads it
hiding its mest, as is the casw with most t keys. Just the other day the writer saw a
white turkey h.en contentedly suting on her nest
not over twelve feet from the road leading from a farmer's gate to his house. She was not at
all disturbed by the passing of a stranger. The White Hollands are a little smaller than the Bronze, but compensation is made for this in the need to be hatched so early in order to be fully grown by the time cold weather sets in. This
is an advantage, as many young turkeys are lost, in the spring rains, aud it does not pay to natch them too early, as continement in rainy weather
is about as haid on them as the rain. is abccess in turkey-raising comes only to those who are careful in every detail. It is for this
reason that many of the most successful turkeybreeders are women.
This care must begin when the poult first
comes out of the shell. Eacki should be taken comes out of the shell. Eack shor and covered with woollen. When the hatch is completed a little grease should be put on the head of each to prevent lice from working there : one big
louse on a poult's head may kill it, but too much grease is as bad as the louse. Dust each well with insect powder, and repeat once a week tilt Put the hen in a box with a crack in the cover Through which she may put her head. Put
liquid lice-killer in the box. Leave her inere an She should be shut up in a coop for the first two days; three if the weather is chilly or damp, but not longer than that. Trurkeys need exer hen and see that she comes back to the coop at night, where she may be shut in and protected from rain and vermin. The coop should be kept
clean if it has a botiom, and shifted frequently clean if it has a bottom, and shifted frequently
if it is without a bottom. Great care is necessary in feeding at first. It range and give them no feed at all than to over beiled them or feed them improperl. Feed them boil half an hour. Chop them up shells and ell Alternate this with milk chrd, or cottage cheese as it is sometines called; chop a little lettuce or dandelion into it. They should be fed in the
morning only what they will cat up quickly. If fed enough so that they are not hungry, they will stand around and not exercise and die of inthem moving so much in search of food that she After thie first four weeks they may be fed chick food or small grains. No corn should be fed io a turkey before it is full-grown.
A turkey's worst troubles are three in number

## Events of the World.

 Canadian.Hon. Mr. Emmerson has approved location plans for south-west of Port Simpson

Mr. F. B. Wade, Chairman of the Transcontinental
Raillway Commission, died at Ottawa, of cerebro-spinal meningitis. He was 52 years of age.

Alexander Cameron, a painter, of Lindsay, Ont., aged
27 years, has becn awarded a medal by the Carnegie 27 years, has becn awarded a medal by the Carnegie
Hero Fund Commission, for life-saving in May of last Rev. H. A. Kennedy, M.A., D. Sc., of Callander, Scotland, has been appointed to the Chair of New Tes
tament Literature and Exegesis in Knox College, To

Two business blocks at White Horse, Yukon, were recently destroyed by are, the loss being estimated at
$\$ 250,000$. At London, Ont., on May 25th, the Dyment \& Baker Lumber Co. propery析 $\$ 100,000$.

The first report of the Board of Railway Commissioners was presented to Parliament on May 22nd. It
was shown that the number of applications made to the Board during the portion of the year between February ond December 31st was 1,175 . The total number

The first contingent of Canadians to occupy the
Vitadel at Halifax was installed on May 25th. It con sisted at Halifax was installed on May 25 th. It con and St. John, B.C. Four hundred Canadians in all

The work of tunnelling under the Detroit river will l,epin on the Canadian side from the town of Sandwich.
Two tunnels running parallel to each other will be con-
tructed, will be supplied with great steel tulbes, the whol ost amounting to $\$ 7,500,000$. In order to obviate he danger of poisonous gases, eloch
Extensive tin and sheet-steel manufactories, financed Now York Montreal and Toronto capitalists, are being installed at Morrisburg, Ont. Twenty-eight mills will be built, and 3,000 men employed, of whom 200 will be practical plate and sheet-irun workers from
South Wales, The company will be known as the CanaBritish and Foreign

## Bran Alo do

 anch of Rothschild, died May 26th.Pigeon shooting has been abolished in England, as ing itsell to cruelties unworthy of sportsmen
Prince Nakashidze, Governor of Baku, Russia, has been Servia is almost in open revolt against kìng ret

Cerebro-spinal meningitis has broken out in Northamptonshire, England. From Germany over 2,000 casea Forty-four Russian soldiers and sallors, insane since he siege of Port Arthur, have been transported from her By the explosion of a bomb intended for Governor Maximovitch, at Warsaw, the man who carried it and wo detectives have been killed, and 23 people indured. uncarthe
quence.
Every additional detail of the terrific Battle of und 28th, but adds to the magnitude of the Russian loss. Nineteen battleships and three destroyers have now been authentically reported as sunk or captured, fter so many vicissitudes, only three, the cruiser Almaz, torpedo-boat destroyer Grozny, and hospital ship Orel, have straggled into Vladivostok to tell the pitiful loss An additional catastrophe is reported in the Vladivostok to meat the remnant of the fleet. is said to have struck a Japanese mine and gone down with on boand, 800 men, including vice-Admiral Skrydlof. The story of the encounter, as told by the survivors
the Almaz, would seem to well be termed the Battle of the Torpedoes. Admiral Togo, it appiears, held his position steadily in the icinity of the Straits, refusing to be lured away, until
varn dy wireless messages that the lRussian fleet was approaching. When the opportune moment came he
pursued forward and opened a terrific fre on the flank pursued forward and opened a terrific 6 ire on the flank ressed the whole division toward the Japanese coast,
hen, as evening fell, the torpedo boats-the " mosquito theet, '"-did their work. Out they came in swarms,
pressing round the big battleships in every direction, pressing round the big battleships in every direction,
and aided to some extent by a fog which partially convealed thelr movements. One after another the groat yessels foùndered and went down, while now and then was heard a territic explosion, which told that a magaloing its deadly work. Presently Admiral Rojestvensky's Пagship, the Knlaz Souvaroff, was seen to tremble from stem to stera, then to settle slowly into the waves, leaving her crew struggling helplessly in the picked up swimming for life, thourh severerely wounded According to another, he was lowered from the sinking At all events, to him has been accorded the credit of heing taken while fighting bravely at his post. Nebogadisgrace. Cut off from the rest of the fleet by the slower movement of his vessels, he, it seems, turned
und fled, followed by swift Japanese cruisers, which suceedd din overtaking him near the Liancourt Rocks. Of
his five vessels, four surrendered; the other made good its escape. Nebogatoff and Voelkersam are both among
ithe the 3,000 Russian prisoners. Upon the day following the battle, boats and wreckage kept drifting in all day ing and cexhausted men, many of whom were badly As yet the Japan'se losses have not been published although it is known that two at least of her vessels The Czar has hein prostrated by the news, but wossibly, a merciful termination to a lung and cruel
war Forcign nations, especially France, are bearing war. Foreign nations, especianty ance, are bearing terminition has not yet bern ann unced. Should she
hoose to go on with the war, Vladivostok will certainly
 rort, will in all probalility le Russia's next offering to
the litule yellow power of the East.

Field Notes.
Just south of Saskatoon a stoam plow is at work
breaking the sod in a seven-thousand-acre field. looks like the return of bonanza farming.
An Englishman named Taylor, left Lancashire this
spring, and within three weeks had boutght a farm in Manitoba, team, outhit, and had a large amount plowed and sown. It is seldom an immigrant makes such

## The Panama Canal.

Away down on the Isthmus of Panama there may be seen one of the busiest and most interest-
ing sights on the face of the old earth to-day. ing sights on the face of the old earth to-day
In the little valley, 10 miles wide and 47 long which reaches out one hand to the Pacific and the other to the Carribean Sea, under the hot, tropiFrenchmen, Colombians, Americans, Sarm about at a variety of tasks. The sound of hammers and sledges mingles with the roar of machinery and all the while fourteen big steam shovels creali and groan as they swing away, ladling out solid rock and hard pan at the rate of 1,000 cubic yards per shovel per day. In addition to these a number of old French "excavators" are equal rate, while, to add to the liveliness of the scene, railway trucks run incessantly, new tracks are being laid, hospitals, repair shops, manufactories and supply depots are being built, and the whole valley is becoming metamorphosed into a continuous town, whose every activity, however, is directed toward the big ditch that steadily but slowly grows below. That it should become so metamorphosed is imperative, since the work must by no means be checked, and it is necessiry the workinen at the shorlest possible notice. peep into the immense shops at Culebra, half way between the seas, and hugh in the mountains where the air is easy to breuthe, would projably
kive some inuex to contract below. These are, in tact, the biggist connract beluw. These are, in tact, the bifgest
repair shops in the world, and cover several acres.
began to make tho tigo the American engineers began ${ }^{\text {to }}$ make tho ilrst surveys across the
isthmus. it was found, as was expected, to the istemus. It was round, as was expected, to be
reeknus with masiua and jellow fever, even tie Cowns-Colon and l'anama-Dcing in a dangerously unsanitury slate of carelessusess and filuh. Os-
tensilly, tho lirst tusk was to change these conCensinly, the lirst lask was wo change these con-
ditions, and so coupletely has this been done that to-day sellow fever is the exception rather than the rule in the valley. SWwapss have been
drained, mosquito marshes destroyed, old puilddrained, niosquito warshes destroyed, old ouild-
ings fumigated, and hospitals erected all along the route. in addition, sircet-cleaning scavengers have wrought a revolution in the towns, and
l'anama is beiny ent 1'anama is being equipped with a complete system
of water supply and sewers. of water supply and sewers. All these steps were
necessary for the saicty of the hordes of workmin necossary the the satety ou the hordes of workincn
who , or the next ten year's, must work away at carrying out he big schemene which, oonce set atoot
by the Aurricans, will not be lightly abondoned by the Americans, will not be lightly abandoned
as was that of the French before Ulum. The recklessness and extravagance of the French have been a constant source of astonishment to the American engineers. In making the surveys the latter came upon numbers of work
shops, half overgrown with ycter Shops, hall overgrown with vegetation, yet filled
with machinery and supplies ablandoned twenty ycars ago. In one pluce tons of rusted steel pens, even, were discovcred, evidenlly sent thither
by some nismanagcument and by some mismanagement and permit ed to rem in.
Of the old machinery much has become obsolcte in the light of modern inventions, but the material is being utilized, and the old trucks, loco motives and excavators have been repraired and
are doing good service in the lighter portions of The canal will not be completed for ten
years, but eten at that, the speed with which it will have becon accomplished npay be a matter of congratulation well worthy of the demonstration
with which will lee cellelrated the crowninv duy
 with sea, and human, shill will Jaugh at the barriers which lands of Cape Il cully decided whet At prosent the stern head ricd to sea level, or be adopted; but
the rcsult is sure
the result is sure to
enterprise, and a boon
world.
An Active Grain-growers' Association.

[^1]Representative Men of Western Canada. Thos. Baird, whose portralt appears herewith, is a native of Scotland, the County of Ayrshire claiming S.), in 1872, and assumed the duties of home-making, taking to himself a Scotch lassie (a Miss Scott) for helpmate, farming in Nebraska for some years quite suc


Canada's Unable to resist the attraction of Wester now owns 320 acres, in the Red Willow district. satisfied settler, he has induced numbers of others to

Facts About Manitoba and the Northwest. world.
Canada's wheat field is approximately 300 by 900 miles in extent.
cording and wheat-growing area in the West is, ac and has as yet only $5,000,000$ acres under cultivation If one-quarter of the $171,000,000$ acres was under wheat, it would not only supply the British demand three times over, but the home market also
Manitoba has only ten per cent. of hor

## Manitoba's area under wheat, 1904, was ten per

cent. more than 1903 .
Canada's Northwest land areas are 50 ter cor
Canada's Northwest land areas are 50 fer cent
larger than ton of the Western States.
Northwist Territories' area under whent.
20 per cent. mo:e than 1903 .
Tin million acres of Northwest lands were acquired
for sittlement by grant and purchase in 1903 .
Sixty-four thousand homustrad entrics were mate in
the Northwest in the last three years. cqual to 10 ono

Modern Battle-ship Superior navigable by steamers.
Winnipeg is Canada's half-way as follows expeditious manner possible. may have accumulated.


The Northwest land companies and railways sold, is The CPP has sold over 5,000,060 acres of it lan grant of $25,000,000$ acres. The $5,000,000$ acres real ized $\$ 18,000,600$, an average of $\$ 3.60$ per acre
Canada has given $57,000,000$ acres of land to rai that of Assiniboia.
Of the 31,383 homestead entries in 1903, 11,84 State taken up by Americans who came from forty-thre sesota 3,887 Dakota sent 4,006 , and Min
Manitoba's population has two of English speech to
The Northwest Territories have 84,000 of foreig birth, and 74,870 of Canadian and British origin. Canada has 10,000 miles of rivers west of Lak

Kinnipeg is Canada's half-way house between oceans.
Winnipeg ranks third in Canadian cities in
Fruit Shipping in Colorado.
In one of the local fruit-shipping associations in Colorado, the duties of the manager are defined

The general manager shall receive the fruit or vegetables from the grower and market them, ac-
cording to his judgenent, in the best and most

He shall do all the buying and selling of the
association under the direction of the directors association under the direction of the directors.
He shall make payments on account from time o time to the prowers for fruit delivered before the final settlement, and at the end of the fruit season turn over to the treasurer such profits as
transacted, and all his accounts of all business transacted, and all his books shall be open to
inspection at any time by the directors, to whom he shall make reports, as requested by them. A directors, shall be allowed him for his by the He shall give bond satisfactory to the directors or the faithful performance of his duties. The rules governing the handling of fruit are Section 1-Stockholders shall not be permitt named their fruit to points outside of the city named, without permission of the general manager. Growers who are not stockholders may ell their fruit through the association, subjec but shall not shipping rules as the stockholders, Sec. 2-Each grower, whether stockholder or
not, when delivering fruit to the association shall be required to have his or her name plainly or other package, for the furpose box, basket tion. for sale shall be carefully prepared for marke and delivered in as fresh and good condition as
right to refuse any
fruit offered to him
nol in a market
able condition. Sec. 4-All fruit association $f o$ sale shall he care
fuily examined by the general man as to kind an grade of sama. ac
cording to quality and condition. delivered to the one day shall be treated as an en-
tirety, subject to
classificetion kind and and as to
grade irrespective of who
raised or delivered he saine. Eech
grower who de livered a portion
of said fruit shall be entitled to his or her share of the
roceeds of the sale thereof, in pronumber of crates, boxes, haskets,
ctc.. furniched by each mrower, and
according to the
classification for classification of the
kind and prade Sec. 6-A
tain proportion
cer each dav's sales. not to exceed 10 per
cent. of the total.
shall be withheld for distribution by the general manager, for the purpose of paying the expenses 1 the association, and dividends on the capital tock. The proportion to be so withheld shall

Things to Remember.
live-stock shows, sales, faits and conven ortago and Lakeside plowing match, June 13 Thos. W. Wallace's sale of Shorthorns : June 14. EAIRS
Neepawa (summer show) ; June 29 and 30, July orkton (Assa.) Show; July 12 and 13. Wwan Lake ; July 18 ,
Mnnedosa; July 18 and
Winnipeg Industrial, July 20 to 28
Killarney (summer show). August A agust Manitou Show ; August 11 and 12
Edmonton Fair: June 29 to July 9
algary ; July 18 to 20
Dominion Exhibition, New Westminster, B.C.; Sept
manitoba fair dates (DEPT. of agricultijire Elkhorn..... ........ ............................................... 17 and 18 Virden.. Westbourne Hartney Deloraine
Cartwright Cartwright
Pflot Mound Morden Shoal Lak Oak River
Hamlota ................................................................................................... 11 Carman …............................................................................................................ ..........July 13 and 14 Portage la Prairie ......................................... 18 and 18 and
 Dauphin renfell $\qquad$
$\qquad$
Grenfell

## fall fairs

Woodlands
stibert plains
St. Jean
St. Mierre
Brokenhead
Russell ...
racgrego
Headingly
Meadow Loa
Lea ............ Oct. 11
Oct. 12
Secretaries of fairs and agricultura! societiea are equested to send in their dates, so that

## Alcohol Condemned.

ained a brief reference to the opinion of Str Frederick reves, one of the most eminent British physicians in the world to-day, on the use of alcohol. We learn ments before the Church of England Temperance Society vere as follows: It is distinctly a poison, and the mitation of its use should be as strict as that of any is on producing sfects for moreover, an insidious oison, producing effects for which the only antidote is small quantities it hinders digestion. Its stimulating effect only lasts for a moment, and after it has passed the capacity for work falls enormously. It brings up the reserve forces of the body and throws them into ction, with the result that when they are used up
here is nothing to fall back upon. On the march to Ladysmith the soldiers who were drinkers fell out as though they were labelled. The use of alcohol is inonsistent with work which requires quick, keen and alcohol is emphatically diminishing in hospital practice and among professional men who work hard during the day. He favored extreme total abstinence. Being a surgeon, he has seen the effect of the use of alcoholic iquors on the system of those who have to be operated
upon, and who recover from the knife with less success upon, and who recover from the knife with less success
than do those who use little or no such beverages. The use of liquors in Great Britain is decreasing, and public sentiment is more and more against them. Even in tctai abstalners.

Grain-growers' Erecutive at Worls

R. Henders, IR. McKenzie, and w. G. Rodgers representing the Manitoba Grain-growers' Associntion, recently met in Winnipeg, and conferred with the Indus rial Exhibition authorities, re the continuance of prize or collections. of agricultural products, i, e, two each of Red Fife wheat, white oats, six-rowed barley field peas and llax, with a four-inch sheaf of wheat oats, barley, timothy, brome, rye grass and clover or

alfalfa, to be judyed by points. $\begin{aligned} & \text { 'rii/es will also be }\end{aligned}$ awarded for the best five bushels of Red Fife wheat an five bushels of white oats exhibited by these associations.
The deputation also interviewed the different coal companies, securing from them the promise that coal it car lots would be dolivered to farmers at the several
sidings along the new lines of railroad throughout the Provace where eccretaries of sulordinate associations can purchase and
deliver the coal, saving the farmers, in many casos,


## Modern Armored Cruiser.

Battle-ships and Cruisers.
The accompanying engravings show the most moder he swittest rate of speed with ihe strongest , rramement They will aford our readers most elfertive procction gased in the present terrific struggle between Izussia and Japan. The cruiser, although less heavily armed than likely to prove useful in an action in many flaces where a battle-ship mipht prove cumbrous. How rajídly imfrovements are being made in these vessels may be ships-built, be it noted, for the most part, in thy eiphties have recently breen discrardod, sold as junk. In judged equally worthless. The cost of a single battle-
ahip runs into millions of dollars, and it may be put out of business and entirely destrojed by a single tor-

Stock Food Once More. o the Editor "Farmer, Advocat Sir,-In your issue of April 19th, I find an article rritten by Mr. J. H. Grisdale, replying to my letter in perhaps I am entitled to the last. In regand to my position I may stato that I am a partner in and the active manager of the Canadian business of the nternational Stock Food Co. I did not intend to arke eny secret of this fact in my recent letter. I nim proud of my position, and I wish to appear frankly ind howestly before the farmers of Canada as a business man stating facts about his business,
ar. Grisdale makes the following statement: ion antic and practical men interested in animal nutridegenerative in its general effects. The preparation or heluful in that is a toncic in effect and likely to prove after the restoration of health, likely to prove antinued ment rather than a benefit."
most every clvilized
being uses some such condiments and medicines with
their food as salt, mustard, vinegar, which etc., all of medicines, tonics and to the best authoritimes given in the Iorm of medicines
by phyysicians combined or uncommedicines. With other continuous use of
these is harmful good health, and also useless and expensive, hy does the human make use of them? Should any person try to do this we feel conflent that he
would not find hie food appetizing, and the chances are good that he would be overtaken with an at-
tack of sickness of claim is that there tonics which can be ing from ill health, or to stock in good condition, and that be obtained at can times. Mr. Grisdale also
says :- I have made study of scientific agriculture for many
years, and have dovoted special attention to animal nutriNe in stock food
ndvertisements, have Come acrosse
the above quoted
found Coundat ionless re-
mark. Further, I have not been able held that opinion who had heard it or meen
it advanced, save in
the above-menthe above-men-
tioned connection.:
The The paragraph ho refers to stated that by increasing the digestiblity of
the grain fed to stock more of this grain would be the grain fed to stock more of this grain would be
assimilated or taken into the system, and for this rcason less could be fed and equally satisfactory re Now I cannot understand why Mr. Grisdale should make a remark of this nature. He has certainly walked along the streets and noticed whole oats in the drop-
pings from horses. He has prohably seen a manure rile and theticed the same thing. No doubt every reader of the "Farmer's Advocate" is familiar with the prac hogs after in some parts of the country of running pings. Were all the prain them to feed on the dropthe system of the strer, there corlainly would be ver
poor picking for the hogs, and this operation could no proves that there is a large nhefant of grain fed which I aloo take the liberty of referriag him to any
lables showing the average composition of our leeding stuffis, and ask him to compare the composition wi
the tables, showing the average digestibility of o
feeding stuff eneral thing from $30 \%$ to $55 \%$ of the there is, as fed which has gone to waste.
I also notice that Mr. Grisdale did not refer ta the Sart of my letter where I stated that the International counds of stock food ship any farmer in Canada 10 with the agreement, that if satisfactory results were hot oblained he need not pay for the stock food
on't want to be judged by mecuious preparation, but we We want every farmer and one man or one set of men. "International Stock Food" on their own account, elliovtag that in a very large per cent. of cases satio actory results will be obtained.
I also want to go on record as stating that we do
ot object to the published results of any teat Mr. Grisdale may care to make. We simply object to the idea of attacking the stock food industry, which is rapidly becoming a very prominent one in Cenede, on the strength of one, two, or even three experiments, which
show very little in the face of the thousands of testishow very little in the face of the thousands of testi-
monials we have recelved from practical stockmen the

## Points in Law for Farmers.

 In order to make the law in this regard clear the rules which govern the railway companies in C ada. I shall deal only with those companies which course, railways which are constructed uler ar erned by provincial legislation, but as they form goy small per cent. of the railways in Canada, Iorm only touch on them
## -EXPROPRIATION OF LAND

The railway company may take without the consent of the owner for right-of-way a strip of land not exceeding one hundred feet in breadth, exceppt where the surface of the adjacent lands, and then whatever is necessary for slope and ditches. For stations, etc., the land taken shall not exceed one mile in length by five hundrod feet in breadth. If more space is required the company must apply to the board, but before doing so
must give ten days' notice to the owner showing the lawd required.
During the construction, and for purposes of construction, the company may enter upon any land, no more than 600 feet distant from the center sent to such occupation the company must pay in one of the superior courts of the province a sum fixed
by a judge of such court. Compensation is made the owner out of this sum, and the balance is the Whare it is necessary to cross for the purpose of obtaining materials or water for construction, etc., and the company desire to lay down
the necessary tracks, they may, if permission is refused
by the by the owner, apply to the board. The tracks must
not, however, be used for other purposes. The company may, on or after November the first
in any year, upon payment of compensation therefor, enter upon any lands lying on comp the route or line of
the railway and erect snow fences ed shall be removed before the first of April following. If the owners and the company cannot agree on the
amount of compensation or damages, then the amount s to be decided by arbitration.
The company may construct and operate branch lines
which are not more than six miles long. Before so doing, however, the company must obtain the authorily of the board, and file a plan showing the proposed locat
llon of the branch line. Tho time for construction of III--HIGHWAY CROSSINGS.
Upon obtaining permission from the board, the rail
way may be carried upon, along or across an existing
highway. But in so doing no obstruction of the highway may be carried upon, along or across an existing
highway. 13t in so doing no obstruction of the high
way can be made with the works without turning thu way can be made with the works without turning the
higriages. is to leave an oren and good passage for
cals rise alove or
than one inch. The duty of the company is not merely to provide a
cossing upon which the rails do not rise wore than
$\qquad$ maintain such as
he crossing. In analing to avail themselves company laid a plank 14 fect hone outside the rail, nald
did not grade the road up to the plank at one end of


crosesnge, a railway company is not obliged
Ked to go upon the adjoining lands of the ownar way. Where an accident to the plaintiry over the railsuch approach being such approach being out of repair, it was held that th
defendants were not liable. In crossing with live stock they must be in charge of some competent person, who must use all reasonable care and precaution. To show how strict this last rule is, let me quote a certain case: ing three horses along a road which crossed tho de fendant's railway, riding one, leading another, and
driving the third. The last horse, being 60 to 100 fee in front, attempted to cross the track as a train ap proached, and was killed. It was decided that the
horse was not "in charge of "any person within the horse was not "in charge of " any person within th
Act, and that the plaintiff could not recover. The company must also erect and maintain upon the railway fences, gates and cattle-guards. The fences
must be of a minimum height of four and a half feet on each side of the railway. At farm crossings thesc fastenings. It is the duty of the company to make and duly maintain these gates with proper fastenings and the knowledge of the owner of the farm that th
fastenings are insufficient, and his failure to notify the company of that fact will not prevent him from the covering damages from the company if his cattle stray from his farm and are killed or infjured.
Cattleguards on each side of the highway, at every These fences, gates and cattle-guards are to be suitable and sufficient to prevent cattle from getting on the railway. Until such fences and cattle-guards are duly made and completed, and ir, after they are so made an completed they are not duly maintained, the company
shall be liable for all damages done by its trains and engines to cattle, horses and other animals not wrong fully on the railway, and having got there in conse quence of the omission to make and maintain such fences and cattle-guards. This liability, however, exists only the railway. This is shown by a case tried in Manithe railway.
The plaintifi's horses were being wintered on his the defendant's railway that of his father, through which a private read, across the father's land, through a broken gate on this road, and on to the railway track,
where they were killed by a train. There wasn't suff cient evidence of any general permission for the plain tiff to allow his stock to run on his father's land, and
in the absence of such a permission it was held that it could not be said that the horses got upon the railway track from land where they might properly be, and,
therefore, the defendants were not liable for the loss. therefore, the defendants were not liable for the loss.
Any person who leaves the gates open, or permits of twenty dollars, and has no recourse a to a penalty pany for the killing or injury of his cattle
The company is undur
along their line when the land adjoining is unoccupied such unoccupied land are trespassing, and if injured there by acident without negligence, the company is ligence is upon the one who asserts it.

## Seed Growers' Convention

In view of the widespread interest taken in the general war againil weed before Parliament, the the policy of seed-grain improvement now under meeting at Ottawa, June 27,28 and 29 , of the Canadian Seed-growers' Association, formally
organized last year. The provisional programm organized last year. The provisional programme Fisher Dr. Webber, of the Washington Dept. perimental Farms; Mr. S. A. Bediord Manitoba Experimental Farm, Arandon, Supt. Arederiers, Deputy-Commissioner of Agriculture redericton, N. B;; Prof. C. C. James, Mr. G A. L. S. Klinck, B.S.A. Zavitz, Mr. J. H. Grisdale ist for the new arricultural collego at Agronomlowing are Briggs, Toronto, and others. The fol Garten Bros. Fneeting: Dr. J. Hall, Rothamstead Garten Bros., Fngland; Hemry Vilmorin, Paris, Snyder, Minnesota; and W. Bateson, Cambridge,
Manss. A wide range of practical and important

Nature Teaching
$\qquad$ volume by Francis Watts, in Sc., contition of a new





## Horticultural Prospects.

$\qquad$ ruit trees and prospect for crop, would say that we have been so busy up to the present moment that we
have scarcely had a chance to make a close examina fon of trees. Generally speaking, however, the apple crab and plum trees have come through the winter in good condition, and several new varieties, which have to bloom. Small fruits are looking healthy. As for good crop, we since we developed our present system growing strawberries, we have never had a poor crop even in the most unfavorable seasons. Some new arieties of raspberries, which we were lesting for hardiand gooseberries are very promising. Of courso the season is early yet, and we may have trouble later rom frost. The frosts of May 25 th and 27th do not ppear to have been very injurious. The earlier plums and apples are now in bloom ; also currants and goosewith much more certainty, and will be glad to give you more detailed statement as to prospects. Ornamental shrubs are very promising. It is cer-
tainly very gratifying to know that such a large numer of the finest ornamental shrubs can be grown to advantage here. Lilacs in many varieties, caraganas,
spiræas, snowballs, honeysuckles, etc., are already showing their flower-buds in profusion. $\begin{aligned} & \text { BUCHANAN NURSERY }\end{aligned}$

## The Chinaman in South Africa.

has been the subject of so much discussion and some division in the British House of Commons, has now lages begin to be patent. In some respects it is proving satisfactory to a degree somewhat surprising to the opponents of it. It was feared, for instance, that the whites and Chinese labor would lessen the number of hites and Kaffirs engaged in the mines, but in almost the Geduld mine alone there are now employed 260 whites where formerly there were only 60, while in all there are 9,000 more Kaffirs employed than before the
arrival of the coolies. On the other hand the Chine are adopting the habits of the whites with an almost startling rapidity. They have taken kindly to such Iuxuries as bicycles-and strikes, the latter much to the discomfiture of the mine officials, who had not expected
such advanced demonstrations such advanced demonstrations from the " heathen
Chinee." There are already 60,000 Chinamen in the Transvaal, but no more will be imported until the ad-

## Advantage of Pure-bred Bulls.

redited to a prominent German scholar: bull to improve the quality of buying a dairy he should look to quality of his future cows to the cheapness of price. The character and re liabilty of the breeder goes a great way in such ure ". of good quality should try to buy a "fut erations, and that will help increase the goo eflects every future sire that may first effort. If his first breed in the line of his first effort. If his first bull was a Holstein or a break up the line of prepotencies and make rope of sand of it. By a wise subsequent selec-
tion oi sires of the same bred, selecting time for breeding power, he wellecting all the broaden the stream of dairy heredity. What we daire after, in reality, is a better and stronger 3. About the most reliable basis of calcula is called, the prepoter of transmission, or, as is called, the prepotency of the bull, is the dairy mothers on both sides of his pedigree. He is quality of his ancestors what lies back of him. The his offspring than the performance more effect on She pives to him of what she inherited more that qualitics, and she . She may be rich in inherited an ordinary periormer. On the contrary she may he a large performer at the pail, simply as a ance in a dairy direction, she has nothine inherit vey to son or daughter, She This will explain why ers themselves, fail utterly to convev their own dairy qualities to their progeny. Their line of
hreeding is from a beef heredity inherited. A cow breeds from her they what they trom her udder. So we must have dairy pedigree
as well as dairy performance. if we get our
money's worth when consiler in huyine a daing mull quite necessary to arrom individual appearance that he poes he indi2. he will type, full if nervous energy, so h. he will take possescion nervous energy, so

Markets.

## Winnipeg

Thompson, Sons \& Co. say: There is a manipulated and artificial condition in the speculative market, on the one hand, fostored by the scarcity of contract
wheat in the American markets, and on the other hand wheat in the American markets, and on the other han
there is an abundance of supplies going to importing there is an abundance of suppies going to importing
countries from exporting countries outside of America countries from exporlagt prospect for this yeer's crops ind a good to excellent prospect for the yeurs crinte in Amorical and the south-west part of America-that is Texas, Oklahoma and Kansas-has not had the best kind of weather recently, there being too much rain for a crop that is almost reeidy to harvest ; and lately there has been fed to the markets a great deal of pessimistic reports from the south-western districts, which, how ever, come for the most part in the shape of gossip through speculative channels, and in many cases have the appearance of exaggeration. The weekly report of the relliable and conservative Cincinnati Price Cur rent issued to-day says: able. Spring wheat is generally favorable." While the stocks of old wheat in America are undeniably ver moderate, it is not to be expected that millers and flou dealers will do otherwise than work their trades on hand-to-mouth basis, so long as prospects for this year' crops continue $\$ 1.20$ per bushel, July around $\$ 1.10$, and September selling at 86c., the miller will go slow o buying wheat for immediate delivery. The fact is the present high prices at Minneapolis are bringing supplic to that marrotioum and prospects of cood crops tarmers are likely to clean out every bushel they have farmers are Thely your trade is also very dull, for the same thing applies to flour dealers on flour as to mill ers on wheat; that is, the price of flour is very hig
(or prosent delivery, but they see a good prospect fot for present delivery, but they see a good prospect
crops and lower prices later on, and no one wanta crops and lower prices later on, and no one wants
be caught with much stock on hand when the time comes for prices to decine. Then the export trad shows practically no demand from America, as Europ continues to be fully surplied from other countries.
our last week's review we suggested the idea that seemed a question if Europe would be able to continue getting enough wheat from other countries quirements up to time of new wheat without raisin
prices. It was surmised last week that world's ship Argentina and Australia shipped out a very small quan Arity last week, but when the weokly statement came o Monday it was a complete surprise to the trade, as showed the shipments from Russia, the Danube cou
und India to have increased enormously, being and India to have trease the countries, so to stead of a total of around $8,000,000$ busthels as Eected, the quantity was over 11, owhero dushers next three months, but when she gets it pushed forwart
to her at this rate, ard at the same time has prospect of excellent crops of her own, there won't be much dis position to advance prices. Latest advices regardin European crops show very favorable prospects in every
cunntry excent Spaln and Portugal, where drouth di country except Spaln and Portugal, Where drouth did
so much damage earlier in the season. More recent ra so much damage earlier in the season. More recent rec
ports from India seem to indicate somewhat better ree
perts than were peviously anticipated. and exports were
over a million buhels last week. The vieftle supply U. S. Crop Report.
decreased last week $1,741,000$ bushels, againgt a do-
crease of $2,165,060$ bushels the provious week, and a decrease of $3,927,000$ bushels last year. The world's
shipments were 11,055000 buhe shipments were $11,056,000$ bushels, against $9,184,000$
bushels the previous wek
 street's, decreased 2,800,000 obshels, againts a decrease
of $3,259,000$ bushels tho previous week, and a dacrense of $3,290,000$ bushels the provious week, and a decrease In the Winuiper mast year.
during the week has, for the trade in Manitoba wheen dull and quiet. Trades in the May delivery must b well evened up, as there seems no demand for May, and as the export and shipping trade is stagnant, it makes
a very quiet market.
The advances in the American markets have a slight influence in holding our pricea fut not sufficient to cause any advance worth mention: ing, and as compared with a week ago, prices only show 1.c. higher, and we can say that it is not often that nee on which it is so diffculte to sell wheat to satitafac
cion. Farmer a are now protyy well finished up with
spring work, and whatever grain they may hold likely be marketed in the noxt fow weok. ${ }^{\text {a }}$ The genPral opinion in the trade is that the supply back in
furmers' hands is comparatively small. The been favored with another week of excellent weather for the crop, which is making very satisfactory progress, and conditions at this date are about all that could
 74 c. $;$ No. 4 wheat, $73 \not \mathrm{cc}$.; No. 5 wheat, 62 2\%c. toed 60 yc , f feed No. 2, 58c. All prices are on a basis of in ore, Ft. Wiriam and Ft. Arthur.
ast quotations.

Flaxseed- $\$ 1.10$, No. 1, Ft. William basis
DAtry producf
reamery-Creamery butter, 25c. ior bricks; Ontario
ing and market lower; bricks (soparator), 19.. to 20c rolls, 18 c .; tubs, 18 c . to 17 c .
Eggs- 12 c . to $12+\mathrm{co}$. rreah

- hive stock

Sheep-Choice stuff quoted at
Hogs-Up a shade;
Toronto Horse Market
Nort that current prices range as follows
16.1 hands Single drivers, 15 to 16 hands $\cdots . . . . . . . \quad 125$ to 200
 helivery horses, 1,100 to 1,200 lbs............ :eneral-purpose and axposes horses, 1,200 Drart horses, 1,350 to
Serviceable second-hand workers 125 to 200
140 to 225 ervicanto second-hand workers
$\begin{array}{ll}140 \\ 60 & \text { to } \\ 625 \\ 60\end{array}$


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\end{aligned}
$$

$$
\begin{aligned}
& \text { (Trading cream } \\
& \text { The Packing of Butter (illustratid) } \\
& \text { The Dairy Calf Crop }
\end{aligned}
$$ POULTRY POULTRY.

Best " Paying , Hens ........
Rossibilities in Egg lroduct

Washington.-In California the winter wheat crop is
maturing rapidly, and an average yield is indicistod. In rank growt Waing ropon growth has been rappa, to danger of lodging. Oats -1 ln the Dakotua, Minnesotu und Nelraska oats have made slow krowth, and the op suffered deterioration in Toxas, Lut in tho princtp.
oats States the outlook is very promising.
Corn Planting is. largely finished, except in the lake region,
Ohio Valley and northern portion thide hio Valley and northern portion of middle Atlantic tion and arowth of corn has been very slow, owing to cool weather, and more han the usual amount of re planting will be necossary. In the Central Gulf States part of the crop bas been Iafld by. In this region cor Texas. Oled consld on need of cutlveation

## Foreign Crop Conditions

$\qquad$
United Kinydom, Germany and France-The presen Condition of the wheat crop is favorable, notwithstand drouthy. Supplics of homergrown whent remain ex tremely small.
Hungary,
Hungary. Roumania, Bulgarla-Suffcient raln has Russia-The drouth in the lieved by fairly general rains. There are continued complaints of delays in railway transportation of grain Italy-Extremely hoavy rains have occurred in the ,, ,

## Toronto

export, $\$ 5.45$ to $\$ 5.66 ;$ goor to meatu to $\$ 4.25$. Butchers' dium s1 to good, $\$ 4.80$ to $\$ 5.10$ : nixed lots, me ers and Feeders-Feeders are quoted at $\$ 4$ to $\$ 5.40$ bulls, $\$ 3.40$ to 83.80 ; stockers, $\$ 2.50$ to $\$ 4.25$; and stock bulls, $\$ 1.75$ to $\$ 2.50$.
${ }^{5} 5$ per nd. $\$ 5$ per cwt.; grain-fed lambs, $\$ 6$ to $\$ 6.50$; bari$\underset{\text { Hogs- } 86.50}{\text { Hest }}$

## Montreal.

Prime beeves, 5 tc. to 6 btc. per lb.; protty kood cattle to 4 c., and common
thite pound tor to 3 lc . per pound. Shippers paic 4 cc . Pe pound Ior good large sheep, and butchers' 3 tc. to 4 .
per pound for the others.
Lambs sold at at from $\$ 3$ to


## Chicago.

Catulo-iood to prime sters, $\$ 5.50$ to 86.35 ; pod to medhum, \$4 to $\$ 5.40$; stockers and feoders, 82.75 ta
$\$ 5$. Hogs-Mixed and butchers', $\$ 5$ to 85.37 ; goo
 $\$ 5.10$; light, 85.15 to $\$ 5.40$; bulk ot sales, 85.20
$\$ 5.30$.
 <br> \section*{British Cattle Market.} <br> \section*{British Cattle Market.}

Information re customs; Bordeaux
mixture-fencing R. R. rifght-of-way,
locnting well mixture-fencing R. R. rilght-of-way,
locating well r railway killing cattle 861
Moving schoolhouse : Killing dot


## QUESTIONS ANID ANSWERS.




Lite, Itterature and Eoucation.

An Exemplary Poet.


Rev. Frederick George Scott.
It is not strange that the peoplcs of other countrics have been slow appreciate Canada. Canadians selves to realize the great resources selves to realize the great resources
of their country the motherland, even now, assume an altitude of superiority toward the "colonists," not realizing the favorable conditions under which. those of their own bload are placed at this side of the Atlantic. But a more remarkable state of affairs exists at present regarding the writers of this country. English reviewers have, for, some years, called attention to the high class of poetic work that has enianated from our Canada has hardiy awakened to realize that this country could possibly produce men of genius. The
Canadiau poet who has received perhaps, the highest enconiums at the hands of these aumhorities, is Frederick Ceorge colt, "ho was of Dr. W. E. Scott, who was for ncarly forty years 1 'rofessor of educated at the Mc'Tavish st. School, McGill and Lennoxville; took his degree in arts, and after. wards attendrd King's College, London, Fingland, fur a course in the-
ology. Appointed rector of Drummondville parish, Quebec, in 1987, he became curate of St. Matthew's, Quebec City, in 1896, and rector of continues in a church work for
which ho seams particularly suited Mr. Scott has issuccl . $A$ A Soul's Quest, and Other Poems," "My I.at-
tice, and Oiher lowems," I. The Unnamed Lake, and Oth. and is at present collectin. more recent writings for
volume. Everything he "w
tains a strong human intery rousce and clevales.
Just as a sample of this poct's
and
 mountain into painto biows the accompanying valley, so the play wright presents together a traito ous Iago and a confiding Othello, sniff and the simple, unsuspecting delicate touch of the poet has the the masterwork of all art. As you read the following lines, watch the natural flow of language, with never a straining efiort at effect; wacch tion of a most natural scene and simple incident, while we are enveloped in
the grandest sublimity of the cria tion of God sublimity of the creathe contrasting fictures
 High:
And straight I pictured to my spirit's The giant worlds-their course by wisdom planned,
The weary wastes-the gulis no simht And endless time forever passing by Then filled with wonder, and a secret I dread, crept to where my child lay fast asleep,
With chubby arm bencath his golden What cared I then for all the stars above?
One little face shut out the boundlese dep-
One litle henrt reveiled the Henven of
$\qquad$ One could wish that the genius vote his whole time to would diyet, the Reverend lielerick George scott is apparently so wrapped up exceptional parish in many respects, for which few, if any, would be as
well qualified) tempted to leave it for even what tempted to Jeare it for even what
might appear to be a more congenial avocation. No visionary, long-
haired a professor ".
; no unpractihaired " "professor " ; no unpracti-
cal, inconsistent, unbalanced cynic, drawing cheap, motoricty to nimof a wider latitude of immorality Which trats hate weakened and dis praced too many in the profession of letters, this exomplary poct is liberal
in his theolosical viows, sincere in
his family his family relations: and his work revelation of his num soul. The happy influence of an amiable che
jusal partner in the person of
daushtur of thin of launet. Finglante whom ho mar. ried in $188 \%$, and the domestic re
sponsibility of hanf a dozen intivht sponsibility of half a dozen wriwht
and healthy children, have morsadd
 Wopler of this comaty as anted with our own
Monadian literature

The History of the Rothschilds.
 of the financial kings of the world and few there are who will not stop

feller or Carnegic, J. Ogden Armour childs, particularly, is one likely to he interested, since their history has so much of the history of stirring Europcan times interwoven with it romance not wholly dependent upon overflowing coffers.
Away back in the seventcen hunAway back in the seventeen hunin Frankfort-on-Main, a little, dingy curiosity shop, over whose counters an old Jew dealt out odds-and-ends
to tourists and others from whom he might thus seduce a good bir profit. The name of the Jew was Amschel, but because he had a red shicld over his door ac a cign, he
was called Zothschild or Redshield Was called Rothschild or Redshield. also known as Rothschilds, and to onn of them. Mayer, is due the credit
of having laid for the Rothschilds of having laid for the Rothschilds
the foundation of the fortune which the foundation of the fortune which must. to shake Furope or to calm it at wild The father wished Mayer to be a rabbi, but he preferred to
marry and enter upon a business tharry, and enter upon a business
carewr. In 1770 he marriad a pret'y
Jewess, Gudula Schnappe and lieran to speculate, and under his shillful administration the little shop shon

$\qquad$
$\qquad$
$\qquad$
sithe-line. tefore long began to draw
the attention of many moneyod men
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ 1lusse hesourht hime, the Napolconic
and he struightway had the $\$ 5,000$, coast, thence on to mule back to the land, where his son Nathan was es tablished as agent. Thereafter canlons might boom and the battle smoke go up as black as it would;
even the war afforded an of money more money and the Landgrave's fortune was made the basis on which the huge structure of gold and bank notes was built.
Nathan went to London son of a like father, he, too, Like sessed the Midas touch, evcn to stronger, keener degree. When the big guns roared about Waterlo there was some danger that the
Rothschilds might their interests staked largely on the Allies? It is interesting to speculate what this London Rothschild would have done had Napoleon won Wellington won, is an old story Ait no time in his liie, perhaps, were the keen Rothschild brains more exercised. Crossing to Waterloo,
Nathan took up his sland with Allies, with dollars in his heart, instead of patriotic heart-beats. Upon the first day of the great fight by Ardennes, came only disaster. Thore were other financiers and remediately hastened home with the news that once more the Imperial Eagle had spread his wings to the Why, we do not know : it would almost seem that Napoleon's little red man had, on this eventiful eve, forJew The canons the anxious Blucher appeared. and the eacles lay drabbled in the mud.
Now was Rothschild's oppo:tunity travel faster, no cable-what could mad to the coast, he Driving like man 5,000 francs to take him acrocs or fingn a water as ever fisherman mad again faced. from there, like haste over the muddy was excitement on the Stock Exdereat had come. The Rothschild, with his millions staked on the wearied, dejection in, mud-splashed, stood there. What further confirmation was needed? Stockholders became crayed, and sold at anything to get rid of the stock they held, acting under his orders, bought the truc news of the By the time Fncland a thousand battle reach ${ }^{\text {a d }}$ hair, and the crafty .Jow's coffers sample of the Rothschild dealings. a his five Maver Amschel died ho called ionined them to ho'd together enintermarry. and to be good to their mother. All five were born finan-
ciers, and they carried out his instrucions to the letter. 1 s . Jews and so supposed to be of no nation, antrustod with the business of were Furnere, and and sovercigns over all $-2-2$ is on record that Nathan Rothschild JUNE 7, 1905
by declaring that he would not furnish the funds. Had there been
profit for him in it, doubtless, the funds would have been forthcoming. All five brothers were made barons by the Emperor of Austria, and upferred an English Waronetcy inrecognition of various times upon which the Jewish financiers had been enabled to help the British treasury. Of later years the Rothschilds have
branched out somewhat. Several of the family have married into titled houses, and, choosing to give up the rigid counting-house life for ease and off" with big fortunes. But paid this day, every child born to a
Rothschild undergoes a severe mercantile training, where the strongest branch of the talent he is promoted as rapidly as he deserves ; if not, he also is paid off with a fortune. At present there is no Rothschild so brilliantold Nathan Mayer: yet, as has was remarked by inore than one student of present-day social conditions, it is not beyond the bounds of possistock there may yet Jewish inancier before whom the marise a magnates of the New World may

John Knox Preaching Before Mary Queen of Scots. In our ficture one can almost hear
the bitter words of harsh denunciation from the lips of John Knox, the preacher, at whose grave the
regent Morton estined that "he neither feared nor flattered any flesh," and who himself claimed for his vocation that it could "claim
no honor from the condescension of princes." In answer to the petulant question of the Queen, " What have what do with my marriage; or Knox, both in the ruipit and realm?' t, replied: "A subject born with in the same, albeit I neither be Earl, Lord, nor Baron. Yea, Madam, t me it appertains no less than it does forewaru of such things as may hur it ; for both my vocation and conFrom his "plainness of me. From his " preaching place
said : "Madam, in God's pre speak; I never delighted in tho
weeping of any of God's creatures,
but I must sustain your Majesty's tears, rather than I dare hurt my wealth through my silence." Speakit ing of his pulpit utterances, Knox had said, "Let them call it impre cation or execration, as it please
them. It has oftener strichen, and shall strike, in de spice of man. Our illustration depicts one of the severe ordeals to which the misguided and unfortunate unsparing hand of John Knox the preacher, three centuries ago.
H. A. B.

Tae Red'Buds ${ }^{2}$ Start. There's a red bud on the maple bough And a bird note in the air, The grass shows green on the southern And the skies are blue and fair.
For spring trips over the misty hills With a message of hope and cheer,
She waves her wand o'er the listening And the pale white flowers appear. Rivulets run through the waking woods, While an endless song they sing
As they hasten to find in the laughing
An end to their wandering.
Daily the marvel of beauty grows
The world is aflood with light. And in the smile of the sun forgets There are red buds on the maphle b
And sweet bird notes in the air, And the shine and shower together cal
Forth the new life everywhere,

THE FARMER'S ADVOCATE.


The Fruit of the Spirit is Love. The fruit of the Spirit is love, joy,
peace, longsuffering, kindness, goodness,
fain faithifuness, meekness, temperance.-Gal.

Gracious SPIRIT, holy ghost Taught by Thee, we covet most Holy, heavenly Love."
The Jewish Feast of the Passover had blossomed into the Christian Easter
then, after seven weeks had been fulfiled the Feast of First iruits became a real ity, for on that day the first fruits of
the Christian harvest were in: "The dame day were gathered added unto them about three thousand souls.,
That
Then
That was indeed a great revival. Jerusalem was all excitement, multitudes
crowdod together, attracted by the outward signs of the Holy Spirit's Presunce -the rushing, mighty wind, the tongues of fire the wonderful gift of tongues. iod had begun to fultil the promise, spoken hundreds of years before: "I ${ }^{\text {will }}$ pour out My Spirit upon all flesh ; und your sons and your daughters shall prophesy, your old men shall dreaun $\underset{\text { areams, }}{\text { visions.," }}$ your young men shall see
That Pentecostal outpouring of the Spirit was so long ago, and we have heard about it so orten, that it makes one may say, ". the miraculous aigns the Holy Spirit's Presence are not needed now and are, therfore, withdrawn." Are miraculous and what is not? when God eands plain answers to praten od natural means-as He is continually do-ing-is not His interference in one sense given in answer to his request, but does anyone fancy he gained it without hard and persistent study? Although miraculous, it came to him through ratural say that there are no outward signs of a special outpouring of the Holy Spirit in the great Welsh revival. The Torrey-
Alexander Mission, which has stirred up
understand why I began by describing point a contrast. Great revivals-over the one ia Jerusalem on the day of Pen-
tecost-are certainly not intended for gns of the Spirit as a rushing, micht ind or tongues of fire-wild, ecstati When the Lord passicd by Elijah,a great and trong wind rent the mountains, followed by an earthquake and a fire, but he knew came the "still small voice." which at once recognized by the prophet as the Voice of God. When a man is filled with the Spirit he shows a far greater sign of tongues. or prophecy than the gir presence is a benediction, joy and peace shine in bis face, he is a true gentleman hind and considerate to everybody is worthy of trust. Weighbors because he happiness also makes her home : if Love be absent, no man, woman or child can be really happy in the grandest palace C. 'mid plensures and palaces "-will do clare unhesitatingly that " there's no place like home." From the rest of the world he may win fame and admiration papers, but at home-" he it ever humble" l he knows that long-tried affec tion is his portion. There he is really known, and the old heartily really who grasp his himself, instead of just admiring the man what he has done. How delighted he is to see a home face in a foreign country

No distance breaks the tie of blood
Brothers are brothers evermore ;
Nor wrong, nor wrath of deadliest
mood,
That magic may oserpower
Oft, ere the common source be known, The kindred drops will claim their own Movert
So is it with true Christian bympathy Their mutual share in Jesus' blood An everlasting bond impartis
or hollest brotberhood.
Brotherly love, though too often it may would never be shown to rudeness whic possession which any king might covet. bestow, and the only one valuable enough for us to offer Him. St. Paul leaneug doubt about His acceptance of that doubt about His acceptance of tha
alone, when he declares that tongues men and of angels, prophecy, knowledge


John Knox Preaching Before Mary Queen of Scots.

854
taith which can remove mountains, the profit "nothing" without Love worth says that Love is ". The intensest, mightiest, holiest thing we know," and surely he is right. Love drew God Himself down to suffer and to die, and the
flame kindled by His great Love in the hearts of men draws them after Him
still.
Constrained by that mighty power, men in every age have deliberate-
ly turned their backe on earthly honor and happiness, feeling that they could not bear to pitch their tabernacles on the Mount of Transiguration while their Master was leading them towards the of Love, let us not shut our eyes the cost. Are we prepared to drink His cup of suffering and to be baptized with seeking are directly opposed : to one is to sacrifice the other. count the cost of Love, and then bravey stretch out both hands for it. It may a loveless life worth? so let us see to it that "' joy, peace, longsuffering, kindness, goodness, faithnot lacking in our daily home life. Be
cause we . Dever is treat them at least as considerately, politely and kindly as if they were ous in our own homen, keeping "com pany ' $"$ manners and clothes only fo strangers, then our brotherly love must are constantly worr quality indeed. If we ful and troubled about many things, and unwilling to yteld our will to God in small trials and in great, then our luw
simply unbearable have-life would bu great fruit of the Spirit should be this great fruit of the Spirit should be steadi-
ly improved by cultivation, and service. If we walk with fod day after day, our love to Him will grow more strong and beautiful: if we bear on
our hearts une names of our hearts the names of friends, neigh-
bors and enemies, when we enter into the Holy Place, our love for them will deepen steadily. And, if Love glories in the hits turn feeds the serving, so service in should be the dearest spot on earth, temple so holy that even the old, shably rurniture is glorified. And a sacred spot
it surely will be if Love reign ther ly and triumphanuly, revealing itself every day in the outward signs of bright
looks, tender words and the " little kindnesses, which most leave undone or de-
spise.,

What I Can Do Without

## was a I lonely of pioners, and

n the wido and open prairic, where
pasased my enty
early yours: Somotimes abundant harvests with plonty
nilled the tin And sometimes on the threshold Hard Then serious dimed dicususing ins wiss and
 Whatover we may do without, whatever

$\qquad$
 Many summurvs, tumy winters, with their With their hapys dyars sump sum, sad days, havic vanished one mo and thanke, llue unryl-nting, swemt The open, 1onesom ferd to-day,
$\qquad$
nd what may come

[^2]Why don't you look in the

THE FARMER'S ADVOCATE.
FOUNDED 1866


Essay Competition

## The prizewinners are: Class

 Mary Potter, Montgomery, Assa, rey Centre, B. C. (ayed 15). Class 11.-Palmer Anderson, Bardo, Alta. (aged 13). Class III.-Bessie M1(ardjce, Cobairdie, Burnside, Nan. (aged 10).The competitors deserving honorable mention are as follows: Flossie Seabrook, Willie Smillie, Florence
Duncalfe, Wilbur Potter, Myrtle Sinciair, Birdie Robb, Jessie McDonald Bertha Barr, Ethel McConnell, Mel Meise, Edna Isabella Hannah, Luella Heise, Edna Groat, Grace Darling, (. ${ }^{\text {M Memories of Billy, , A. L. A. U }}$ a prize, because we had no story
competition going on when it was sent in), Annie Mcitowan, Blanche Clover-flower, Lloyd Leask Luella Cassel, Mag. Gracie Pinder Minnie Hughes. These names ar Some of our young essas of merit. ligers and other dabounds in lions, and the girls evidently think that a
shotgun is a suitable shotgun is a suitable weapon with of one, at least, is tather mixed sent in a poem by a well-known posed it herself. she had comCould not expect honorable mention, Narrow Escape" as their subject although several gave many Good
reas mns why the .. Farm. A's Advo-
cat.". ante tarmon's paper.

A Narrow Escope
 large mumber of its is regabicants by a
others as a country where ther few dangers or fierce animals to harm people who dwell there, it has
its dangur, "hich "ill be long re-
membered by mentrered by some of the inhabi-
tants. One afternoon in the latter part
of Deraminu, a young lad by the
name oi Jack tome fiptcen yeals if age, living in a small days vacition from schoul, 1uft home to visit some friends a furw mills out
of lown. He had a large dor at for some which hur was very fond but Whiles back was out about two
 ath nan serous, as they wili narer at-
tark if not in packs or very hungry,
and wathen quietly on. Thise wolves
 his tracks and followed. Rove, how-
ever.
oncon frimhen $d$ them off, killing
$\qquad$



## A Narrow Escape.

 Tom Jackson, a young lad eighteen his chum, Jack Benton, when with came to a deep ravine with almost perpendicular sides. There was no cided to go in opposite directions along the ijank and meet at their starting-point at four oclock.Jack returned with half a dozen partridges, but there was no sign

> of Tom.

$$
\begin{aligned}
& \text { of Tom. After waiting for an hou } \\
& \text { Jack started out to hunt for him }
\end{aligned}
$$

Now, Tom had followed the ravine or about three miles when he came He hidd not seen any fallen acruss. cided to go across. He had not been over long when he started two was getting well on them until it was getting well on in the aiternoon time he found the crossing-place it was neariy six o'clock. He had just saw a large panthera a growl, and He fired, but only wounded is springenraged beast sprang at him, and knocked him down before he could distance away, and wren he heart the shot he hurried on, and, seeing Tom's arm and shoulder were pretty badly torn, but they got home all right. That the narrowest esforgot about it. $\begin{gathered}\text { LESLIE C WADE (ag.d } 15 \text { ) }\end{gathered}$

## A Narrow Escape.

## It was four ooclock in the aiter

 tober. As I had no special work to perform, I thought that I wouldtake a little hunting trip, in th. woods near my home. 1 twok in rifle, and caling my dog Tịe,
coons, and my dog la "ed on th herd a growl and a craching of dry saw a huge black liear with two young cubs. I was terror-stricken and dumb with fright, and casting
one glance at the fierce brute dashed for the nearest tree. I instant that hir huge paw would crush my hiad. But the blow never noise of tarking, sn nrling and growling, and looking up I beheld my with. the bear. It was aterce fight conflct while it lasted. The dog womnts, but still continuing to at tack the bear. But suddenly he received a crushinw Whow, and dropped
to rise no more. I was now at the to lave got enough, for it lurked off and I saw it no more. I now
furned my attention to my poor dog, who was lying lifeless where he
fell. I buried him on the spot later I erected a headstone over his
prave in memory of his comrage and
faithfulne s Raithfulnes PIIMER INDERSON. A Narrow Escape.
old man and his little granddhild.
lery litin, 10 eat. One day ordered that ard his about myyiene. $\begin{aligned} & \text { He } \\ & \text { thev change their }\end{aligned}$
1) fainted with fear:
cept in the case of one company where
the privates' wardrobes had been pitiably
 "ina ntormed that none of his men could
The colvencl hesitated a moment, then

## THE MODERN METHOD

of buying tea is not to take chances on quality and value, but to insist on getting

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Winnipeg Businass College
$\qquad$
Portraif of the Lato Bishop Baldwin

 Tho Lonlon Printing \& Lithographing Co.TENOCRAPHY nempres


Box

[^3]
## The Second Mrs. Jim

dozens of other things-all to come
out of that egg and butter, money, out of that egg and butter money, kabit of thinkin' that that's all she Amongst her tactful efforts to pro
mote the welfare of mote the weffare of her boys, wa school, teacher. "I I wanted to man he was. It makes a lot of difference how the boys has to be
treated at home, if you know how they te treated at schooi, and it pays for folks to know the teachers
they get for their soungsters.. man that's real wide awake and up to all the young one's meanness than any of your goon, meek, half handle the boys, an' (hinks they're all as good as he is. Boys will get get ahead of this kind than they'll catch from one of the other kind. Acting upon these opinions, Jim'a time time and without showin her hand, brought about a helpful relationship between master and pupils. which extended to several panionship. "Our Sunday field days was just finc," records the step mother. "I learned a lot abou weeds in winter, an' birds in winter
an' mice, an' all such things, an' boys all the time. just trampin round witk our Club, etc." We need not be surprised to learn was brought to give way in th matter of letting the lad, Frankie he longed to be-a doctor. The boy according to the home verdict "Never did seem to do anything doctor a sick chicken or a calf, an he's perfec'ly happy;" whilst Jimmie who was to have the farm, was most skilfully and unknowingly to which would k,ave certainly ended disastrously, and landed safely and happlly into the matrimontal har-
bor. "I tell you," says Mrs. Jim, "the best way to cure love-sick voung folks is just to plant 'em sid in fair weather, an foul weather ston an' rain, an' if they can stand it for a lifetime." ${ }^{\text {and }}$ With which final quotation I will close mv little series, only assuring you that my "xtracts hive not hall exhausted th second Mrs. Jim

## Humorous

i HREE KINDS OF pie.

- I was eating my supper the other nontly-drossed country girl who when ing on the table, came up and asked it I would have dessert. I inquired what
 .. You may bring me a piece of pie,
$\qquad$
We have three kinds-open-top, cros barred and kivered-but they are al having so wide a varicty for me to eo
$\qquad$
$\qquad$ its lungs (full orchestra).
Irate I'assenger-Why don't you sto that kid howning? Give it a spanking
It's a nuisance, and you ought to stop Fond Mother-I can't. It's hungry
and I don't belleve in thrashing a child on an empty stomach.
Irate
I'assenger-Will, turn
it over
Y, ralous young housckrepers sometime
his wife how much has she? Just make the mistake of cleantng paint with
what comes from thr buter and sand sorap In't It only cratches
chere And when the children come. the paint. Thn other sonp will do the kindly mention the FARMER'S ADVOCATE

The LEAVENWORTH CASE

Chapter xxix.-Continued found myself in a large bed-room, evidently the one occupied by Mrs. Bel-
den, and I passed on to the door leading
int and into the room marked with a cross in
the plan drumen for the plan drawn for me by $Q$.
rouzh affair. rough affair, made of pine banras was a
rudely
painted, as though it had been rudely painted, as though it had been
put up in $a_{a}$ hurry long after the rest of put up in a hurry long after the rest of
the house was finished. Fausing before
Pa
 the latch, I endeavored to entor. The
door was locked. Pausing nnin. my ear to the key-hole.
itself
the my ear to the key-hole. The grave
itself could not have been stiller. Sud-
denly denly I remembered that in the plan Q
had given me, I had seen another dor had given me, I had seen another door
leading into this same room trom the leadng into this same room from the
one on the opposite side of the hall.
Coing one on the opposite side of the hall.
Going hastily around to it. I tried it
with with my mand. But this was also
fastened. fastened.
nothing
Was
Convinced
left
but aloud, with an accent
i. Hannah Chaccent
it you do chester, you are discovered: obliged to break it down
Still no reply
Going beak
weight againat atep. Threw my whole
ominously the door. It it creaked ominously, but still resisted. Stenked
only long enoush to ment had taken place within, I pressed its hinges, and I fell forward into fov from
so ostifing, chill and derk so stifing, chill and dark, that I p pused
for a moment to collect my scattered senses. In another moment the pallor ing upon of the pretty Trish face star-
 death-like a chill, that had it not been should have been seriously dismayed.
As it was, I could not nrevent
 as I turned toward the silent fige, more
stretched so mear, and observed with What marble-like repose it lay beneath the patchwork quitt, asking menselt if
sieep could be indeed so likn dicath in its appearance. For that it was a sleoping
 And yet so white was the brow turned
up to the bare beams of the unfinished wall above her, ho glassy the ontinishod
hall-opened eyes, so the
motionless the are lying hale eunder, so mationless the arm
the coverlict, that it the edge of not to shrink from contat with osssil
ture so dire in her uncongciotusnose contact seemed tor he nconsciousness. But
myself, therefore, I storessary, Nerving myseff, therefore, I stooped nand liferving the
hand whic lay with its toll-tale scar
mockingly hand which lay with its tall-tale scar
mockingly uppermost.
lut touch of her hand on mine. the the first





## If a man's wife is a good baker, nothing

but the best flour is good enough for her. There can be no greater extravagance than the use of inferior flour.

Winchester Springs, Feb. 27th, 05.
"I read about Royal Household Flour which is purified by electricity. I also read about the woman paying freight 25 miles before she would be without it. Royal Household was not sold in our town, I was asking about it and my grocer told me to wait a day or two and he would get some, and I am glad I did so. My wife is a good baker and made good bread out of other flours, but what she has now made out of Royal Household is so far ahead that I would be willing to pay freight fifty miles instead of twenty-five, rather than go without it. There is no flour 'just as good' as Royal Household."

> (Signed) JOHN HENDERSON.

Now, is there a single woman in the whole country who, after reading what Mr. Henderson says, will not at once send for the Royal Household recipes and give Royal Household Flour a trial. Mention this paper and address

THE OGILVIE FLOUR MILLS CO.; LIMITED, MONTREAL


Lost, Strayed or Stolen.
 OKOTOKS.-Five dollars each will be paid for the recovery of three bay mares.
one four years old, and two three years one
old branded $Z$, with K hanging at bot-
, tom,
Young. Young.
MACOUN, Assa.-Strayed from a pas-
ture at Estevan, between August 25 th ture at Estevan, between August
and November 1st. 1903 , a pair o bay
ponies, with halters. on, and branded $V$ and $R$. One had a sore on left knee. $A$ Strayed, black mare, aged 3 years modium size, branded Z T on righ
shoulder ; few white hairs on forehead
俍 thickened left hind hock. Bay mare, $\underset{\text { aged }}{\text { and }} 4, \underset{\text { med }}{\text { medium }}$ size, zuare buit ; branded Z Z
right hip.
Ton right shoulder,
Narrow scar on left fore le above knee ; $\$ 5$ reward. P. C. Ander son, Qu'Appelle, Assa.

## QUESTIONS AND ANSWERS

 Miscellaneous.re bale of mohair. Re mohair, we are not using it, and
know of no one buying it, unless the wool
dealer noticed in a trade paper some time ago that there was some talk of a factory
starting up in the East.
$I$ enclose the ndrress of an American firm that might
buy it. brandon woolen mills Can you tell me brewed beer. o brew homemade beer for his own consumption without a license in this
country, the same as the working man oos in England?
Ans.-Yes; but it must not be sold, nor hermaphrodite good useful pointers from it. And hermaphrodites common among cattle
I have one two enears old anave one two years oid.
any ate ster.?
any hing for a curiosity? Melfort.
Ans. - N Ans. - No. such are not common, and
re only of interest to scientists and is of no more value than a sterr for fat
tening, which would be the hest thing th C Mapllrodites in a future issuc. Making a living off a sual or ond Is a profession. Many gardeneris do woll
off 5 acres, but to succeed or a small farm of 5 or 10 acres requires a smainal rroducts. On 10 acres in the Okanagan, a deal of truck may be rised on goodd
land with : abundance of water, potatoes. omions, carrots, parsnips, cabbage and
tomatooss being, perhaps, the most profit-
 alove; but so much depends on the man
that, , an give no more positive



- Poll evil
behind her halter on top. of necke about a month ago. It ran a yellowish, thick
matter. $\quad 1$ dressed $i t$, and it healed, but broke out again this week and dis-
charged agning It is very sore. Mare charged again. It is very sore. Mare
is doing well, and so is colt. What is the cause, and wh
is it infectious?
it
Buffalo Plains.
Ans.-Have a competent veterinary surgeon see this mare, if possible. The
disease is not contagious.
in need of a tonic treatment agow got lame on front leg two months
ander again, and got lame in
hind

 | swelled; |
| :---: |
| well |
| getting awfully thin; doesn't eat | Well ; aborted last fall, but is due to

come in again in August. I given her legs with hot wat

Ans.-Feed the cow well a ration bran and chopped oats and a little
ground flaxeeod, along with a sufficen quantity of hay or other bulky food
 ounce ; nux vomica ${ }^{\text {( }}$ (powdered), 2 ounces; ;
gentian (powdered), 6 ounces ; tenugreek,
 dally-half morning and the other halt
in the night feed. Iymp
I have an aged horse which stocks very
badly badly in left hind leg and slightly in the
right ome when standing in stable. worked him two weeks in seeding, and left hind leg swelled to twice its natural slze and got very stif and sore; then, in
two or three days it seemed not to be
 right hind leg became very sore and stiri
and seems to remain so. I can hardy move him, and he holds the lean up mos
of the time, and does not lie down of the time, and does not lie down. He
if thin in fesh, and has been for a year
or so, but eats well or so, but eats well and heartily. I hav
been bathing his legs with warm water
Eli. SUBSCRIBER. Ans- - By the description, this horse's
blood has got into a bad state.
Give
him an alootic pill
 nit rate of potash in the feed daily for a,
week. Carefly
tho len inflammation of the uterus. Had a cow that calved and didd not
clean hersell the frost day. The next day
I tried to thko the chan I could reach it all, and it was so hen ten some did not tore when I Pulled on it, so
to be ne nll right the first hut seemed came silk right the first three days, be
cane on the morning of the fourih
day she day-she worked and strained a a if to
calve. I examined her, but could not find calve. I examined her, but could not find
anythinge She difer the same day; when
I opened hure she wno sul supened her she was nll Mack inside
sum na womb, smull intestines. What
was was the cause of her death, a
could I have done to save her? Ans-The colv diell of Replic Rentriti Cinllanmation of the woumb, accompranied and the use of sutiseptics, such as some some tised.e. coal-tar or dip products adver
Giet a copy of veterinary Ela ments, s1.50, this ofice, and read up on
the anatomy not the care callecl for in such cnses.
scurbiness of the legs in drafters
 Wriected with scales or kind of rough moncr: they don't seem itchy, but upon
touchiny. the leges appear sore, and thit tiogh scab will drop off, leaving sorct
SUBSCRIEER.
 mondered sulphur und raw linsted of
nixed to numbe the "onsistency of crean).



Chatham Incubators Hatch Spring Eggs into Fall Dollars.
May and June are the best months to start in. June hatched chicks grow like weeds during


Every chick you can mature and market in October is worth
50 cents, if not more. The next three months are the right ones in which to get stanted in the chicken-raising and the women folks money in in can do all the work that needs to be done in about onc-half hour daily. The way to make poultry pay is o get "broiler" chicks of uniform
size and weight ready for the ket when prices are highest, and the only way this can be done is with a a good Incubator. The one that is sure and never-failing is the CHAT-
HAM. If the egg is fertile the chick ncubator

## oney fer are we of results that we take chances on your success before we get our

We will ship you a Chatham Incubator, freight prepaid, and give you two years to pay for it. Nothing to pay until November, 1905.
The Chatham Incubator pays for Itself ever should, the June hatched chicks will, have a martet value of 50 . each by October, thus enabling
you to pay for the Incubator without using one cent of money not earned by the machine itself. Our beautiful and complete book, "How to Make Money Out of Chicks," teils the whole story.
No poultry raiser can afford to be without it. It' TPERELE. Sond for it NO W.
THE MANSON CAMPBELL CO., LImited Dept. 2 CHATHACI, ONT. Distributing Warehouses at Montren,, Que,
Brandon, Man, Calkary, Alta.; New Westminster
B.C., And Halifax, N.S. Alta. Factories at Chatham, Ont., and Detroit, Mich Aso Manuracturers of the ramous Chathan


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OUR FENCES, white To Us.
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Successful Feeding and Breeding.
Some very important remarks that may
well be given prominence Well be given prominence for the לeinefit of stock breeders generally throughout
the country were made by Professor Jas. the country were made by Professor Jas.
Wilson, B. Sc., of the Royal College of Science, Dublin, in the course of a most
iuteresting lecture which he delivered last itheresting lecture which he delivered Last
week at the annual dinner of the Land Stewards Benevolent Association of Ire-
land, held on the eacond night ond land, held on the second night of the
suring show spring show. In his opening remarks
the Protessor laid spectal emphasis on an all-important aspect of stock managoment, namely, the treatment of cattle in
winter time winter time. . He alluded to the fact that
the men constituting his audience were the men constituting his audience were
not the ones to instruct on this point, but there was no denying the facl that
there were very many yormers in then there were very many farmers in all parts
of the country who were not in the same on the country who were not in the same
condition, and who needed to be brought : face to face with the importance of good the cold, harsh wintor months. He Went
on to illustrate this nspect of the stock-
 Tarmers who are content to pursue their
operations in a slipshod and carelose operations in a slipshod and careloss
f.shion. The stantement was that there were about 4,550,00 cattle in Ireland,
wade up of $1,500,000$ cows, $1,000,000$ over two years old, $1,000,000$ between ine and two years of age, and about
$1,250,000$ calves. Of these he took, for the purpose of calculatione the cal cars.
They wers worth at the end of the year, ho would estimate, about $£ 5$ per head;
it took $£ 3$ to bring them through the winter, and in spring, in the majority of
cuses, they were worth $£ 7$. $\begin{aligned} & \text { That meant }\end{aligned}$ a loss of wer per head. This was ren-
dered all the more regrettabl dered all the more regrettable and re-
markable when it wws remembered that by a diferent system of tratment they
could gnin $£ 1$ instead of losing that sum. By giving generous and judicious feeding, attention and shelter during winter time,
furmers might bring thatir calves up to value of $\varepsilon 11$ or $\varepsilon 11$ in the spring time
This could be done at an expenditure of This could be done at an expenditure of
10s. or $\& 1$ extra in food, and would represent a gain of 20s. to 30s. per head,
instead of a loss of 20s. which fis at present the rule. Calculating the older
animals at proportionate rates he would animals at proportionate rates he would
estimate that
Irish farmers
Iost estimate
$\Sigma 7,000,000$ to $£ 10,000,000$ per annum. To intreeding, contended the Professor,
who due the stamping of type in these
two principa two principal breeds, and not only did
inbreeding set them going, but it was a inbreading set them going, but it was a
proven fact that the most impressive sires
that have that have come over to Ireiand were
bulls that have been inbred. As ex-
amples of this he cited such Shorthorn
 Fingland, occurs about twenty times),
Secretary of State, Laureate and Prince Secretary of State, Laureate and Prince
of the Lilics, and among the AberdeenAngus, Jumper and Edamard VII... both
of which were inbred to the cattle of


The following is an excerpt from one of
Allan Maclachlan's letters to the Toronto Allan Maclachlan's letters to the Toronto
News: ${ }_{\text {An }}$ what bee has got intil News: "An' what bee has got intil
Tam Crawford's bonnet.
Ah doot hés growin' staneless plums an' seoderes
aiples. An' noo he wants us tae hae aiples. An noo he wants us tae hae
nane entet hornless kye. Gii the Lord had
intended the kye tue dae without horns intended the kye tae dae without horns
he wadnaa hae made ony but Polled An-

 tao require an inch anf his net because
its lani eneuch tae poke ower tar intil ither folks' business. Losh keep me,
Hinn, Jeanice, wad tak ma heid
 "1. sac muckle as memtoned knockin'
tho coo's horns.
"allan maclachian.'
" Why, Mrs. Mussel,", says the neighbor

 "He would," explains Mrs. Mussel,
.. but by the time he kors through his "hut by the timo he goos through his
physical culture mexercises in the morning
he is too tired to do any other work."

DON'T BUY GASOLINE ENGINES , wruturumurnaleris


Tn answering any advertisement on this page, kindly mention the FARMER'S ADVOCATE,


QUESTIONS AND ANSWERS. SHOULDER TUMOR.
My horse's shoulder became galled at
work and swelled considerably. After work and swelled considerably. After
swelling went down a hard lump about
size of ones fist remained. It is not
raw, and does sot s.emensore. How can raw, alld dors not s.rem sore. How can
lump be removed ? SUBSCRIBER.
High River. Ans.-Usually the sur,geon's aid is
necessary to cut ont the tumor, some-
times these are gristly (fibroid), and
others contain a very slight amount of


years old, is looking good, eats well, all
feels good, but his testicles are swoll.
very much: have washed the shoath w.ll
und used .


"Royal Household" is Reast becoming one
of the beat known tems in our language.
This is the name of a brand of flour
The of the best known terms in our language.
This is the name of a brand of forer
manufactured by the Ogivie Flour mills Co., and is a favorite wherever used for
the making of bread or pastry.

In this issue will be fund the adver-
tisement of the McKillip Voterinary College, Chicago, Ill. Under the Manitoba
law law governing veterinary practice, vet-
erinarians must be graduates of what is
known erinwnas a t tree year school. A similar
known an
law holds good in Quebec. Veterinarians in this Province who have attended the
McKillip College are:
Drs. Coxe (Brandon), Lawley (Brandon, Rutedge (Bois-
sevain), McArthur (Hartney), C. D. Mc-
Ciiv),
 R. D. Scurfield (Crystal City), and the
oditor of this paper. Located at Chi-
cint cago, the college enjoys a large practice,
and students get oplenty of clinicial ex-
perience and stuaents get penty of cinical ex-
perienee, an absoluto neossity if they
hope to be sucesstul in practice. Dr.
ho hope to be successful in practice, Dr.
McKillitp, the ehead of the institution, is
no inspiration in himself to students to an inspiration in himself to students to
do to though work, and as a clinician and
instructor on tho dionnosic of lomenose hnas few equals. A course in meat in-
han
spection (a division of veterinary work spection (a division or voterinary work
likely to be estanlished in connection with
ine verter many moons) is also given, and the creat abatoirs of Swift, Armours and others
afford plenty of material. Farmers' sons intending to study veterinary medicine
should send for a copy of the college

## TRADE NOTE

McMILLAN FUR \& wool co--The information below will help those desirous
of shipping to the McMillan Fur \& Wool
of Co., Minneapolis, Minn.:
Manitoba, Northwest Territory, Ontario and British Columbia, ship your furs to
us at Minneapolis by express, and the express agent will attend to eges. and ting them
through the customs house and forwarding them to us. No dust on raw rurs or
seneca. $\begin{aligned} & \text { Consular } \\ & \text { invoice } \\ & \text { fee, } \$ 2.50 \text {, }\end{aligned}$ seneca. Consular invoice fee, $\$ 2.50$
where value of shipment is $\$ 100$ or over
Ship hides, senecea root, tallow and grease by freight. (i. S. call and kip un-
der 25 bibs. and dry cali and kip under
12


Charged 15 per cent. duty on wholesalc
market value at shipping point: but at
Cur

dioes not pay to ship it. The duty on
sheep pelts and wool excludes them. The
customs houses are located
On the .. Soon, Line from the east, at
Sault Ste. Marie: on the Northern
Pacific, "Soo" and Great Northern from
Winnives and beyond, at Emerson on on


Aduniral " Bob " Evans in a recent con-

methods at least by which the Japanese
liave attained that splendid adaptatiolity








BREEDERS' DIRECTORY,









$\mathrm{E}^{\text {LTON \& WATP, brediers off pure blood Herel red }}$


 H. Wi. Hoikivivov, Neopama, Man. Bacrod
















 Civae aloo itmortat and

 $\overline{\mathrm{R}^{\text {OnT }}}$












[^4]America's Loading Horse Importers


We have brought to this country nearly every first, second, third and fourt prizeevery Government Show held in France since the Paris Exposition, 1900.
Our horses won every first and nearly every prize down to the fifth at the St. Louis World's
Fair. On acconnt of bringing in the best, our trade is increasing, so that we bring the largest number. We have made five importations in 1904, bringing more Percherons and French
Coachers than have been imported by all others combined. If you want the best, write

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 SHIRE HORSE


 Tited toand and aid what whate to to bou
 station-Althorp Park, L. \& N. W. W. Ry.

## ALEX. GALBRAITH \& SON

Brandon, Manitoba.
After a most successful season of sales we still have on hand a selection of strictly high-class
PERCHERON SUFFOLK COLTS
And to close out will sacrifice on price. If
JAMES SMITH, MANAGER,
BRANDON, MAN.


Clydesdale Stallions
Our third consignment since Toronto Fair has just arrived, per S. S. Athenia, from Glasgow, which includes
several of the best colts ever landed in America. Prices right. See this lot. om

JAMEEE DAIGEETY, Lomdion, Ont.


SIMOOE LODQE STOOK FARM CLYDESDALES
Any persons wanting to purchase Clydesdale fillies
and
atidion for breeding
should call on us before buying elsewhere, be we elways have a number of prize
winners in our lot.
HODGKINSON \& TISDALE BEAVERTON, ONT.
Cong-didstance 'Phone in connection with Farm

## Elbow Lameness

Is that the trouble with your horse? A quick
method to cure this trouble is by applying
DR. CLARK'S WHITE LINIMENT sold by alle dealers for so cents. A good thing to always have in the stable
The MARTIN, BOLE \& WYNNE CO., Winnipeg, Man.

## QUESTIONS AND ANSWERS Miscellaneous.

 INFORMATION RE CUSTOMS Where can I get a copy of the Cadian and American customs duties ? dian and American customs duties ?
Carlyle.
IGNORANT Ans-Apply to the nearest custom house
on each side of the line. The Canadian Almanac, price 35 c ., contains the Cana-
dian list. BORDEAUX MIXTURE-FENCING R. R. 1. What is the Bordeaux mixture
spoken of on page 220 , of your February 15 th . number of the '. Farmer's Advo
cate., 2. Where can I obtain said mixture? Can a settler compel a railroad to
furnish material for fencing their right-
of-way through or joining settler's land
 Ans.-1. Place 5 lbs. bluestone in a
cloth sack, and suspend it over night in a wood vessel containing 4 gals. of water
immersing the sack. In another woor
vessel slake 5 lbs. Af fresh lime in as many gallons of water. When the lime
is cool, pour it and bluestone solution
into gallons.
2 . Make it yourself 2. Make it yourself. See above. Fuller
instructions, issue April 12 th, page 535 .
3. Yes, and build the fence too. Bet-


Ans.-Note carefully the local conditions
and the nature of the country and the nature of the country where
springs are found, then try to locate the
well where the toporraphy of the well where the topography of the country
is similar to that. Frequently, at the
head of a ravine, toward a mountain wader is a quite nearine, theward a mountain,
worface. On hill-
tops, of course tops, of course, one does not expect to
find water near the surfice, but we have all seen springs rising from such improb-
able places, especially higher hill, not many miles away. The use of witch hazel and other magic arts
are entirely discredited as means of lo-
cating surings cating springs. One must exercise his
best judgment, and trust a good deal to pailway killing cattle. 1. What is the limit of speed for
passenger trains to run over highway crossings in city limits?
2. Con a person collect damages for
cattle killed on the King's highway in city limits, if an attendant is with them?
3. Railway company are under obliga-
tion to city, being allowed to 4ion to city, bempany allowe to put obecond
track over crossing on condition that
they they place flagman at crossing as som as
traffic would warrant it. City had twice raffic would warrant it. City had twice
motified railway to place flagnaan at
rossing before accident occurred. Is railway company liable?
4. Crossing was blocked by yard inup to allow cattle to cross. Cutce
started across track and passenger train
somming in coming in oprosite direction ran into
herd, killing some, attendant be-



A young lady teacher, who was agreat
atorite with the port Whittier, had rou-
$\qquad$
$\qquad$

[^5]

MORAIS \& WELLINGTOH,
fonthill. - ontamio

FOR SALE
The gem of the Rocky Mountains, a
pure white
PERCHERON HORSE
Foaled in the foothills, weighing $1500^{\prime}$
lbs. when in condition. This horse has a, mane 7 feet 3 inches in length and an immense tail, which makes him one of earth. In consequence of business enkagements I am offering this wonder-
ful moneymaker at a bargain. Adiness
JAMES WILSON, Sunny Slope, Alta.
WM, MARTIN, or $\quad$ J. W. IRWIN
811 Union Bank,
WINNIPEG, MAN.
Box 15 ,
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Importers and breeders of Thoroughbred.
Also Buf Orpingtons and Came fome. THE STALLIONB
"Kelhton," Imp. "Abbeywood" at stud. Fee,
Thoroughbred, mares, $\$ 25$ to
insure. Mares DALE \& PULFORD, South Qu'Appelle, Assa.
 HALF-TONE ENGRAVIIIG



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ing for the Athabasca Landing, carrying mail
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Tha Colloge building has been recently enlarged and modernized by

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 inary Reguar Graduate Course，acquiring the Deglee of Doctor of Veter inary Mot－gradiante Course，acquiring the Degree of Doctor，or veter

 Surgery and Lam n nes

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Write for catalogue and o：her information
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Pa＇nted red on both sides．Most durable and economical covering for Roofing or
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Cheaper than wood shingles or slate．No experience necess．ty．A hammer and snips


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Send in your order for as many squares（10x10 feet）as you require to cover your
new or old building．The very best roofng for this climate．We can supply knve Trough，all aizes，Corraser Ali goods shipped day after order is received．We are the largest concern of the
kind under the British flag．Estabilished 1861 ，Capital invested $\$ 150$, ， 00.00 ． THE PEDLAR PEOPLE，OSHAWA，ONT．，CANADA．
 Write Your Nearest Offle

 gested，the constitutional treatment give
should be useful．Some of these case
follow blows upon the udder ；being i，
heat heat，or from eating plants of an acrit
nature．Would suggest tanhing the part
anicected wilt owunt anfected with equal yarts of tincture of
arnica and tincture of iodine．Give in－ arnica and tincture of iodine．Give in－
te：nally one dram iodide of potash morn－
ing and night in the feed．

## Miscellaneous．

MOViv́g schoolhouse． can have our school moved or not？I
is about one mile is about one mile from center，put there
by trustees，as there was no，attendance
at the school meeting halitants want it moved．The trustee
did all the work except the carpentry．I this allowed？
Ans．－Yes；section 46 of the School Ordinance enacts that the school should
be placed in the center of the district．．
as near thereto as the road allowance as near thereto as the road allowance，
or a high，healthy，suitable locality
or ${ }^{\text {shall permit，provided，however，that in }}$ shall permit，provided，however，that it
case it be not found advisable to plac the school in the canter of the district，
before the school is placed elsewhere， Commissioners upon petition，showing th easons why the school should not

KiLling dog－misrepresenting land．
$\qquad$
$\qquad$
RED POLLED BULL？
The best for beef and butter．We have some
good ones for sale，and the price lis right． H．V．CLENDENNING，Bradwardine，Man． 10 Hereford Bulls
等 ogleside Farm．D．SuITH，

## 䧉P．F．HUNTLEY， HEREFORDS 

 JOHN T．PARKER，Box II，Lethbridge，Alta． Alberta Herefords Drumrossie Shorthorns＝－＂．Irumrossie Chief Chif＂$"=52866=$ at head of herd $=$ Young thingor sale

 30 HEAD SHORTHORNS All bred from Watt's stock bull, "Royal Sailor," and
others. Five bulls old enough for rervic. Cows all
in elf in calf or calf at foot to my shock bul, Edward 7th (Imp.). .R. train going west stong at farm, four miles
west of Portage la Prairie, at 10.30 on day of sale. WEDNESDAY, JUNE 14.
D. S. McDONALD, THOMASE WALILACE,

Auctioneer.
Portage la Prairie, Man
Hawthorn Bank Stock Farm
A new importation, just out of quarantine. are on the way west, and

## SHORTHORNS

## GALLOWAYS

There are 3 bulls, all yearlings and toppers; one of them won 1st at Anyone in want of Shorthorns or Galloways, don't forget to write or call before buying.
JOHN GRAHAM,
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Nobleman (Imp.), a Winnipeg winner, of Nonpareil breeding, and Pilgrim (Imp.) a massive, smooth, red bull also Non-
pareil Prince, a straight Nonpareil two-year-old, winner of parst at Winnipeg, 1904, and Fairview Prince, same age, an-
first FIFTEEN YOUNGER BULLS
fit for service, is JOHN G. BARRRON'S present offering for sale. Mr. Barron is crowded for rem
and cows at rock-bottom prices.
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CLYDESDALES, THOROUGHBREDS and HACKNEYS; SHORTHORNS, GOLDEN WYANDOTTES, INDIAN RUNNER DUCKS, etc
 William (imp).



Adveriss in the Farmer's Advocate.

Taking Care of the Hides.
As the beef ring is an ostablished in-
stitution in many farming communities

## ,

cure or himation welow al as to the care and
crecen pertinent :
(ilids-llidides just as they come









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## S


tor a smaller hide or cal fskin, in in propor-
ticn to size.
(ireon lutcher hides shrink in saltines.
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SCOTCH SHORTHORTS
Members of this herd won the tho gran

 and stock bull.
OEO. KINNON.

## Scotch Shorthorns

Herd hoadod by Royal Maggregor,
an exoellent thol bull and pryzo
winer of notel Young stopk of
bother
P. TALBOT \& SONS, - Lacomlo, Alta. Shorthorn Bulls, Heifers and Heifer Calves for Sale.


 Geo, Rankin \& Sons, Hemlote, Man. BUNNY BLOPE BHORTHORNS


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fourteen seasons and an fairly claim to
have done as proftable have done as profitable a business for
those who have insured in it as any
other doing business in the same line. An examination of the business done durling and since the year 1891, shows chat but have paid larger amounts per acre
on an average during all these years than their competitors. The highest amoun the lowest, 33 . ${ }^{2}$ On an average of the 14
id years the company have paid $\$ 5.50$ per
acre, and this on an average assessment of 22 cents per acre. Ten years, the Company paid the full claims of $\$ 6$ per missions, for securing business, the total
cost cost of running the company during the
year 1904 was about $\$ 3,000$. port doos not set out out tho method of ad-
justment of the losses.
By pointing out mastment of the losses. Py pointing out
the methods adopted by some companies
 is assessed on a basispon a total lorsuor or
$\$ 5$ per acre. Should a storm strike his
Ster crop and a total loss result, he receiv
the full amount, providing the compan Supposing the loss is only pratial, or
say on- hali
far one ofithon of the crop, the
farme paid a proportion of the loss, farmer is paid a proportion of the loss,
at ontands, to the amount insursed.
Thus for one ifith or a five-bushel loss on Thus for one-fith or a five bushel loss of
a wheat crop going twenty-five bushel causo one dollar is a fifth of the five he 'rovincial Mutual pays TWO DOLLARSS or forty cents: Al lushel for every lush
destroyed up to firteen bushels, or sil There are no
Drevercentage limits in the what it is found to to and thus tis armer whose crope are damaged by ha which is what he insurne fors, and not
percentage of it. if farmers would con sider the different methods of paying fir damages done dy han storns and want
ha, they would find that the adidustmen
of the original company. the Provinci Mutual Haill Insurance
the fairest. and to to the loser the cheapest of any
ness in the province. made the other day th
Nutual was too honest

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MIND AS WFLL AS BODY IS DANGER-HELP FOUND IN

## Dr. Chase's

Nerve Food. Suicide, insanity, falling sickness, par
alysis. These are some of the results o alysis. These are some of the results o
worn-out nerves.
The vitality of the body cannot stand the strain, and, overcome by worry, fail
ing health, anæmia, menstrual derangements, overwork or exhausting disease
mind and body have been wrecked.
No one would neglect a disease dreadful in its results as nervous ex-
haustion if the danger were only realized haustion if the danger were only realized
with the first symptoms.
The time to begin the restoration of
the nerves by the use of Dr. Chase's Nerve the nerves by the use of Dr. Chase's Nerve
Food is when you find yourself unable to sleep at nights, sufer
or neuralgic pains, indigestion or weak
heart action.
Loss of feesh and weight, growing weak
ness and debility, a tendency to neglect the duties of the day, gloomy forebod-
ings for the future, are other indications
$\left\lvert\, \begin{aligned} & \text { You cannot liken Dr. Chase's Nerve } \\ & \text { Food to any medicine you ever used. It }\end{aligned}\right.$ Food to any medicine you ever used. It
is a nerve vitalizer and tissue-builder of
exceptional power.
Naturally and andually Naturally and gradually it rekindles life
in the nerve cells and forms new red corpuscles in the blood-the only way
thoroughly cure nervous disorders.
Dr. Chase's Nerve Food, 50 cents, all dealers, or F.dmanson, Bates \& Co Co,
Toronto. Portrait and signature of Dr
A. W. Chase, the famous recipe-book
 "These machines," he said, "have un-
doubtedly diminished crime. I heard of
a clerk in a grocery the other day who was getting $\$ 8$ a weck. He had to be
on duty at 7 o'clock in the morning, and
he was not through till 8 at night. ried, and the week after the ceremony he
asked his employer for a raise. 'you are Herace, the employer said,
you feting $\$ 8$ a wrek. What ails
wif I wife and two children our $\$ 8$ a week and
saved money besides.: '. 'They didn't have cash registers in
hose days,' said Horace, bitterly.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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HE'S ONLY ONE
OUT OF SCORES
But Dodd's Kidney Pills Made Him a New Man.



$\qquad$
and easily detects imperfections.
Let ine give an example of what hap-
Let mee give an example of what hap-
lens for want of a knowledge of an
atoms. and that not of a kind which
man came to me to-day to appoont a
mine for an examination as to soundnus

Veterinary Examination. A veterinary surgeon, writing in an ol ol
Country exchange, presents the following arguments in favor of a veterinary ex amining, a horse before it is purchased
Most people who have anything to d Most people who have anything to d
with horses believe themselves to b
good judges: anyhow, they take offenc


The best and suregt oure for GouT and



Arthur Johnston aREENWOOD, ONT

## Offers the following

imp. bulls, all registered in E. H. B. 7 high-class home-bred bulls, all by imp. sires
and from imp. or pure Scotch cows. imp. cows and heifers.

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Still have a few good young.
bulls to offer. Also an ex-
ceptionally good lot of heifers,
among which there are show
animals. Prices easy.
CATALOGUE.

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| :---: |
| JOHIN OLANOY, MARQILL, ONT, |

MAPLE SHADE SHORTHORNS

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Nine young bulls fit for service.
Showing the fin est Cruickshain
breeding Good Size, Quality Flesh and Bone. Inspection invited. Oatalogues on
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 cows and heifers of all ages. Also one imp.
stallion and two brood maros. Price日reago.
able. Visitors welcome. Farm one mile trom
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Never before has another person made a free offer such as this. I do not distribute cheap samples broadcast, but am daily offer such as this. I do not full-power Dr. Sanden Electric Belts absolutely free of charge, and they are the same in every respect as though full cash prices were paid. The proposi-
tion is simple. If you are ailing, call at my office and take a Belt home with you. Or, if at a distance-no matter where-send your name and address, and I will at once arrange to deliver to you one of my Belts, with suspen-
sory or other attachment needed. Use same according to my advice until sory or other attachment needed. Use same according to my advice until
cured, then pay me-many cases as low as $\$ 5$. Or if not cured, simply cured then pay me-many cases as low as $\$ 5$. Or if not cured, simply re-
turn the Belt, which will close the transaction. That's all there is to it. If you prefer to buy for cash, I give full wholesale discount.

Not One Penny in Advance Nor on Deposit. Not a cent unless you are made well. I make this offer to show men what one in a thousand, when cured, will cheat me out of the small amount asked It pays me and my patient. My business was more than doubled the past year. Each Belt embodies all my own exclusive inventions (latest patent March 7th, 1905), and all patients receive the benefit of my 40 years' experi-
ence, a knowledge of infinite value, and which is mine alone to give. 1 am the originator of the Electric Belt treatment, and all followers are imitators. This I will prove by any guarantee you may ask. You wear my Belt all parts, curing while you rest. Used for lost manhood, nervous debility, im potency, varicocele, lame back, rheumatism, lumbago, dull pain over kid, neys, pains in, all parts of the body, kidney, liver, bladder disorders, constipation and stomach troubles. Send for the Belt to day; or, if you wish more in-
formation, write me fully of your case and receive my personal reply. I will formation, write me fully of your case and receive my personal reply. I will
also send my descriptive book, sealed, free of charge. I have thousands of recent testimonials from grateful patients. Would you care to read some of
them? Let us take charge of your case at once. I will put new life into you in two
weeks' time. Don't you do the worrying. Put that on me. I will take all the weeks' time. Don't you do the worrying. Put that on me. In will take all the
risk. I have something to work for. Unless you are cured I get no pay. Address
DR. C. T. SANDEN, 140 Yonge Street, TORONTO. omee Hours : Saturday until 9 p.m.

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## nostrils he will sea e a hiole on the reflected skin near the margin. It is the orifice

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SHuEp DIP Standard of the World






PINE GROVE STOOK FARM nookland. ONTANIO.
Breders of SCOTOH SHORTHORNS and SHROPSHIRES.
W. C. EDWARDS \& CO., Ltd., Props, JOHN GARDHOUSE \& SONS Seatch and Scotch-tenul Sharthors Sulifo liorses, Licolil ait Lolenstor Sition.
 horace greeley and the dis Sentient subscriber An Acquaintance met Horace Greeley
one day, and said:" Mr. Greeley, Ive stopped your paper
" Have you ?" said the editor, "we that's too bad,", and he went his way.
The next morning Mr. Greeley met his subscriber again. and said. ..I thought you had stopped the 'Tribune.' "So I did."
". Then there
 The office and the presses were running,
the clerks were as busy as ever the compositors were has busy as aver, the
business was and the business was going on the same as y
terday and the day before., "Oh!" ejaculated the subscriber, didn't mean that I had stopped
paper; I stopped only my copy of it, paper; I stopped only my copy of
caues I didnnt like your edit orials, Pshaw "retorted Mr. Greeley, "
wann't worth taking up my time to me such a trife as that. My dear sil
if you expect to control the utterance copy a day, or if you thinink to find newspaper or magazine worth reading
that will
tight
ringer
angles
with right angles with your own, you are
doomed to disappointment."

What is the meaning of the:
worrd
sin The Soretary of the Territorial Live
stonk er's Advocate" of direct falsehood in the
statementa it. made re the various an ales at Calgary, and also states that informa-
tion re. "the horse fair and sale ".
tas.
 hat this paper and a city contemporary
failed to receive the circulurs se the horss air and sale, or any information what
ver rogarding the time, place or methor
or holding the vendue. We might als
 to the establishnent of a department of din
agriculture for Alberta was not sent this
paper, although a copy wns securedt being tecmed of sufficient public interes
to warrant its publication.
Neither wis.
 doubts, arose re the catule sale being "
auction, when a horse sale, advertisox i
 means a fair. not an wuction, but
noonth hemec. in sulw, means an auction
not When is to mean one, and when th
other? The atititude of the ". Farmer
O. afford its, rraters all the inturmation
that call be derived. and if tat timess th
sheddul
 its large with growing aircl. of suth-
teribers.
 horses before sompone elede tiso pistered that
Other horsen had the had not shown any nasal discharge or
other symptoms of disease. ossur.

Sherthorn Catile and Lincoln Shuap Shorthorn bulls, cows and heifers for sale at greatly re.
duced prices for the next 00 days.

J. T. GIBSON,<br>Denfield, Ont.

Scotch Shorthorns
Herd headed hy Imp. Royal Cham
plon. Young stook for zale from
Imp.sires a ED. ROBTINSON, $\qquad$ IMAPLE LODGE STOCK FIRM Kight very oholoe young bulls, of the
best breeding and from irst-olass mill-

A. W. Bhilith, Maplo Lodge P. O., Ont. For Sale-some Young Colls, with oalveg at
 BARREN COW CURE
 - L. F. BHLLLEOK, Mortlebryg, Ont.

Brampton Jersey Herd- Wo have now for im







## YORKSHIRES

young stock, six weeks and two months old, out of im sows, at prices that should appeal to you, if you want
to get some well to get some well - bred
young stuff. We can sul Mly pairs or trios, not akin. Write us for prices.
WALTER JAMES \& BONB Roseor. - Manlioba
MOUTT FARM BERKSHIRES choice-bred stock PaIRS NOW POP sale ${ }^{\text {nit }}$


[^6]

## Dunn's Hollow Concrete

 Block Machine

The JAS. STEWART MFG. C0., Ltd., Woodstock, Ont.


Ask your Hardware dealer for prices. If he cannot supply you with the information desired, write us for catalogue, etc.

## CLARE \& BROCKEST,

246 Princess Street
WINNIPEG, MAN.

MAKE MONEY AT HOME

the william weld co.. LTD., winnipe, man

Results Resulits from well-directed advertising
are so sure that pare for taking care of them even before the advertising is written. "Follow-up" is the first word in publicity as well as the last.-[Printers' Ink.
" Do you remember, dear," he asked, as they sat down on one of the rustic seats at the summer resort, " that I cut
our initials on this tree behind us three or four years ago?" "/ Why, no, George," she replied. don't remember that. Are you sure?" inspected the bark closely. "Yes," he said. "It's the tree, all right, but it was another git

Some years ago Phillips Brooks was recovering from an illness, and was denying himself to all visitors, when Roive
G. Ingersoll called. The Bishop received him at once. "I appreclate this very do you see me when you deny yourself to your friends
"It is this way," said the Blshop feel confident of seeing my friends in the
next world, but this may be my last chance of seeing you."

A curiosity in threshing is reported from Oregon. Last summer a large reserve of food for cattle, in the event of lucerne falling short. As the winter proved a mild one, hardly any of this wheat hay was required for the animals,
and the price of wheat, 80 cents per bushel, was high enough to tempt farmers to put the hay through the threshing
machine. It yielded 10 to 15 bushels per machine. It yielded 10 to 15 bushels per
ton of third-grade wheat, and paid well ton of third-g
for threshing.
wisconsin stallion law. Professor W. A. Henry, dean of the Wi consin College of Agriculture, , has fa-
vored the "Farmer's Advocate ", with a copy of the new bill regulating the regis-
tration and licensing of stallions passed tration and licensing of stallions passed
lately by the Wisconsin Legislature. The lately by the Wisconsin Legislature. The
bill was drafted by Dr. A. S. Alexander, Professor of Veterinary Science at the
Wisconsin College of Agriculture, and is intended to eliminate the scrub stallions State. All stallions in the State under
the provisions of the lill are required to the provisions of the bill are required to
be recorded at the horse department of the College of Agriculture, with full de-
scription and pedigree, which description
and
 county where the stallion is owned.
Owners of stallions to obtain license have to make amdavit that their horse
is free from hereditary or contagious $\left\{\begin{array}{l}\text { disease. The license certificate will show } \\ \text { whether the stallion is a pure-bred or }\end{array}\right.$ whether the stallion is a pure-bred or
grade animal, and has to be posted at
the stables where the stallion is kept during the breeding season. The act will
not take effect until Jan. 1,1906 , and is $\begin{aligned} & \text { expected to encourage the use of sound } \\ & \text { rurebred sires. }\end{aligned}$ The new law is an advanced step in
State supervision of the breeding indus-
try and is a realization of the principles try, and is a realization of the principles
of Government control of live-stock husbandry as well as public sanitation and
vure food production.
the The law is a wise provision in the best
interests of the horse industry, and is expected to eliminate scrub
The bill is framed on lines similar stock.
law in force in the Canadlan Northwest.

TRADE TOPIC.

from .n urtistic
maml. Itom their
held .. flour is the homed
hold " flour is
mestic point of view


THAT'S THE SPOT!
Right in the small of the back
Do you ever set a pain there? If so, do you know what it means? It is a Backache.

A sure sign of Kidney Trouble. Don't neglect it. Stop it in time. If you don't, serious Kidney Troubles

## Donl's KidNer PLLLS

cure Backache, Lame Back, Diabetes, Troubles.
Prioo 50. a baz er 3 for $\$ 1.25$, all donlora DOAN KIDNEY PILL CO.

The Cream Separator that is the
Cheapest in the End. There are some folks who are ever lastingly trying to get "something fo gain "" price because the agent sags its "just as good." And then, after a few months, when the tires and spokes have all loosened up they cuss the wase

Price not the only Difference.
It's the same way with cream separa tors. You can buy many other separa tors for less money than the U.S Cream Separator sells for, but before you've funshed paying for the exper ment you'll ind price isn't the only dif ference. The eheaper separalors so get out of aljust infecause buit cheaper material by inferior manufactur ing methods; they consume twice the bowl that will of oinn they have bow skim clean. The repars in frst few years woth pay uiffere for the S. Creal Sepatorfere

Durability is Important.
The U. S. Cream Separator has stood the test of time. Many of them have been in use for io years, and cost less than a dollar for repairs. They run easy skim cleauer than otiers, have a simpl low supply can.
Farm Ma heine
Co., of Bellows Falls, Vt., have
printed in a hand some booklet a sands of letters from satisfied Cream Separator This booklet wiil
save you money

when you buy a separator, and a post
Treinsure prompt deliveries and to save freight charges for their Canadian cus-
tomers, they ship from their warehouses tomers, they ship from their warehouse,
at Montreal, Sherbrooke, ITamilton, Winnipeg, Calgary and Vancouver, but When writing to advertisers Please Mention "Advocate "



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[^5]:    ad: "Why. Wr. Whitho.., what makes

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