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WINNIPEG, MAN.

## JUNE 28, 1905.

## The Service of Fairs.

season will have opened.
Fairs are arranged to cater to as many of th different classes of humanity as is consistent with spend his time of fair to , woul he must use a little discrimination in the posal of his time to the examination the dis ent exhibits and features. The word "fair " con veys a meaning just in accordance with the manner in which the event is seen. To some it means a race meet, to others a live-stock show, to others a collection of implements, musical and other instruments, works of art, etc., etc., to others a horticultural display, and, to a grea majority, it means the aggregation of all these features, with the addition of howling fakers grinding organs or cheas fatures; the hive stock hower, bencraly, at the far side of the grounds gund, in the minds of some, scarcely worth seeing Such an impress in from intended to ward wher Gouefars wandituted, and Primarily fains are cunduc are rade portunity for the display of maritorious products to award prizes for the best, and to give those who are interested in such production an oppor tunity to acquire information that will epable them to improve in their methods of production whether it be for exhibtion or not. Incidentally, other features have developed at the fair, some, such as manufacturers' displays, being also of an educative nature; others are purely for entertainment, and others are on the grounds for the express purpose of getting money from the visitors without giving value in return. With all these features clamoring for the visitors' attention, it is well, before visiting the fair, to lay some kind of a pian of the method of spending he time while there
list or prors prace, one should read the prizelist or programme the events, and then decide which of these would be the most useful and inarrange the order in which ho will visit the can ferent features, and the length of time to dif spend at each
Perhaps to the majority of peozle who visit the fair with the express purpose of receiving informa he display many diferent branches as possible, hold instruments is of the most interest. Machinery of all kinds has a peculiar fascination for most people, and with our present scarcity of farm help, labor-saving machinery is of increased interest. With more general use, and the everincreasing varieties of such machines as cream separators, manure spreaders, hay loaders, roadmaking machinery, electrical apparatus, p:amos, sewing machines, etc.. there is a corresponding increase of study required, in order to determine by comparisonewh article is most suited to the parison is afforded at the fair and at no pla is there a better portunity for such occasions the visitor is privileged and is may requested to ask as many fuestions as ho products on exhibition.
In the live-stock departments many items of interest can be picked up. Among the drafthorse breeders just at present there is an (fiort
being marle to develop horses with more size. along with good quality oi bone. An examina fion of the rings as these horses are being judged, fforas the very best possible opportumity to beome posted rafter. He will find the umners in every case placing done, a type that commends itself to the
needs of the time. Among the cattle there are equally interesting features to notice. How many men are there that can tell at a glance whether and identify offhand caltle of the Polled Angus, The country is yet full of people who heve a faint idea of a model modern butcher's stoer and who do not appreciate the value of special pur pose stock. 'These are the people who should use their time at the fair to become informed up on such subjects. The bacon hog is another of the modern productions in stock-breeding that is hone too well known. Knowing the bacon breeds does not perfect one's knowledge of this modern money-maker. A continual study of his form, irespective of color, is required, in order that every hog upon the farm may be as long, as aeep, of as good quality, and as economical a eeder as the prizewinuer at the fairs. Turning The distinctive are other lessons to be learned. breeds should characteristics of the different ested in farming more than ordinary fair can tell at a clance whether a s a Lincoln or a Leiceter. Shropire sher Oxford.
Turning from this to the dairy department where such is found) the buttermaker will be interested, particularly just now, with the method packing butter for distant markets; the farmer will see here the different separators, churns, butlligerkers, ete., at work, and can form iningent ideas of the practicability of these for

The seeing of these and many oth.er features which may suggest themselvcs, is a profitable air in wime the o be done, the much of this kind of sight-seeing ircus features of a fair, receive any attention ad If If freaks and the fakers, the grandstand atrotat and the hoss trot are the big things play of your common sense by spo good diseoking

## The Mission of the Cream Separator

 Elsewhere in this issue of the " Fermer ocate," Miss Laura Rose gives an interesting eparator has of what the centrifugal crean has not overestimated the advantage that has come to the buttermaker through the application of this wonderful discovery whereby cream can be immediately extracted from milk, instead of depending upon the slow process of gravitation weo its attendant disabilities. At a Que bec dairy meeting, Mr. A. A. Ayer, the Montrear produce exporter, condemncd the farm separator system in creamery buttermaking, and senara separated at the factory, wit all cvents, af is reasonably station milk system bes much to mond Rose fresents the case from the viowpeint Miss the farmer, and we apprehend that under a very wide range of conditions, he will be disposed to agree with her. In our judgment, the farm separator is here to stay. The problem is how to make the best of it. It is a permanency, be cause of its advantages to the farmer in securing moro fat from the milk, a better quality of cream for farm buttermaking or other purposes, and assures sweet, fresh milk, for which the rising generation of calves and pigs are devoutly Chankful.THE AARMER'S ADVOCATE $\begin{gathered}\text { rates and have those rates go into effect prac- } \\ \text { tically }\end{gathered}$
and Home Magazine.
HFIE LEADING AGRICULTURAL JOURNAL in MANITOBA AND N.-W. T
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## Regulation of Railway Rates.

at present constituted, provision is made for an appeal from the decisions of the Canadian Railway Commission to the Governor-in-counct on matters of fact, and to the Supreme Court on matters of law. Thus far our new Railway Act has proven an efficient instrument, doing useful work. Some day a pronouncement will be made probably on a most important matter, which the railways will resist, but there is, apparently no good reason for any protracted delay in the redress of a grievance that should be summarily disposed of. Our more complete subvention on the part of their Inter-State Commerce Commission, an instrument which, although it has done much to reform high rates, virtually have the power of of all its de cisions. Note the remarks of Fresident Roose velt, addressing the Chamber of Commerce, at policy of extending the powers of the Commission and of giving it, particularly, the power to fix
ally at once, he continued
In the days of the fathers of the oldent among you, the highways of commerce for civil ized nations were waterways and roads apen to typical highway of commerce is the railroad, and under this changed system we see highways of commerce gruw up, each of which is controlled a single corporation or individual ; sometime several of them being controlled in combination by corporations or by a few individuals. When such is the case, in my judgment, it is absolutely necessary that the nation should assume a super isory and regulatory function over the grea corporations, which practically control the high ways of commerce.
And a couple of days later U. S. Secretary Taft, at a dinner given by the American Railway Association, emphatically declared that railway rate legislation must come, and if the railway men of the country were wise they would aid not hinder it; that the sentment of the country a campaign a campaign on the subject that would do no good Government that the public have rights which must be re parded. "You cannot run railroads," said he as you run a private business. You must re spond to the public demand. If there is danger of discrimination then you must allow the establishment of some tribunal that will remedy that discrimination."
In Canada of late we have had the opportun ity of witnessing the concern of a prominent railway man, lest the vested rights of capital should be ignored by the rapidly crystallizing public velopment through the timidity of investors. No one wishes to deny the capitalist the legitimate fruits of his enterprise, but the conviction is warranted that the moneyed classes have displayed a signal capacity to look after themselves, that they have, indeed, through their sovereign privileges, obtained rather more than is coming to them. It is time someone has the temerity ta remind the capitalists that the country has a vested right in the railroads, by virtue of the millions of dollars of subsidies granted them, to say nothing of the privilege the companies possess of levying on the commerce and industry of the community. By reason of the limited number railways which a given territation is not grievances, hence the necessity for trol of business which the for artificial concommerce are inadequate to regulate.
The franchises of the Canadian railways constitute an asset of enormous and ever-increasing the regul entitle the country to some voice in perity more vitally even which aflect its prosways themselves. The carrying corporations derive, approximately, the same net profit from high rates on a small volume of traffic as from ow rates on an increased volume, consequently hey have no motive except good will to induce them to risk a dollar of possible revenue, by have everything to No with the public, who and are thing to gain from a reduction of tolls, bottom charges. Only an impartial tribunal. with the most complete information and powers, s competent to adjust rates so as to secure to he public maximum concessions, without violat ing the legitimate rights of the railroad stocksupposed to have in the Railwey Cody we are and the countiy will its functions with a fair but unflinching hand.

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## Horses

## The Indian Streak Endures.

 In grading up of horses from the pony to some cidents are noticed. In some cases, after two or three crosses the produce will resemble the sire in form, others in fore quarters, but still rether cases the order is the neche bekind ; in horse heavy in the legs and kind quarters, but running light and narrow in front; again, the whole body will resemble the type toward which will still retain the size and form of the original female foundation stock. The peculiarities are interesting to note, as they illustrate with what persistence characteristics, fixed as they are inthe neche will adhere even when stallions of 1 . the neche will adhere even when stallions of the
recognized breeds are used for two or thre erations.

## On Developing Horses.

Anent the subject of develofing conformation authority upon horses, recently wrote
The practical problem for the breeders of time when changes of conformation are at the and to develop for dynamics at the time when the greatest dynamic development occurs. This means that the young animal should be trained never to an extent which is persistently, but breakdown or impair its health in any way. This training should be for both speed and endurance, he former by frequent fast work, and the latter y long and continuous work at a moderate altcrnately. While the animal is young these alternate periods should be short, each lasting but fow days, but as the aninal grows oldor they hay be lengthened, until, at the age of eight or cipally to the production of speed, followed ty month or more devoted principally to the rrouction of muscle. In this connection the question might be
raised, " Why should not draft stallions hurve ertain amount of work of the kind for which such horses are bred ?" If work is required of light horses to bring out the best within them,
surely the same principle will apply to drafters.

## Draft Horse Breeding

English farmers favor the Shire as the best horse for the farmer to raise for work and to Itges the merits of Shire horse breeding : It is evident, in the first place, that raft horse will be the last to feel the effects fact that motor plows, wagons in the field. But there is one., are already sound young horse which a machine does in a possess, viz. : that the horse increases in value up to six or seven years old, if it is in anything it ever so skillfully handled, and there is a feel ing of satisfaction about owning stock-whether living or dead-which is increasing in value which cannot be felt over that which is continually deFurt
less machinery is considerable, and auite horse the reach of a small farmer ; whereas a Shir nay be bought which breeds a $£ 500$ stallion, on notice, and instances are recorded of writer's ow being bought for less than twenty sovereign which afterwards made a thousand. No Noreign hater can claim similar results from a machine tion. In these days it without entire reconstruc cessary for a farmer who wishes increasingly neing to stock his farm to the full, so that he ca make the most of his produce without dependin is obvious by the sale of hay and grain, and it will give as little trouble as anything shire mares summer or winter, and of course they else, either fully do most of the work needed on an ordinary
farm. With regard to selling, a good deal depends on it may be best to sell the young stock as then and for this purpose the best sires should be the youngsters are given every possible chance of turning out " trumps," and paying for the dam and fees twice over. But the owner of sound side, need not use any screw of a stallion that joints, and feather, size. soundness with " feet will make its for a really good gelding, which years old. It' is some time yard gate when five but he can be out to work to wait, certainly,
money," and certainly no better farm st
be desired than those which will do this. There 18 one great point in favor of the Shire,
and that is his tractability. If haltered as foals, and that is his tractability. If haltered as foals, rare that they give any trouble, is excen when the day of being harnessed comes, and it is a mistake to put that off too long, for no Shire, either male or female, is injured by doing a little light the collar may be put on at any time traine distinction in other directions has been missed the horse may still be profitable as a worker,
and the mare as a combined worker and breeder

Do Geldings Make a Better Appearance Than Stallions?
To the Editor "Farmer's Advocate"
"Whip," in your issue of May 24th, the article by
castration, and I cannot agree with his opinion, that from ten days to three weeks old is the most suitable
time to operate. In my experience the time to operate. In my experience the aim of every
breeder has been to have a gelding resemble an entire breeder has been to have a gelding resemble an entire
horse as much as possible, and there surely can be no question as to which has the most attractive appearance in harness or under saddle. No doubt when a
"stag " is hitched with a mare the contrast is striking, but it certainly is not in favor of the mare. On worked and of Europe, stallions are almost universall gelding on the streets. Were this the custom in Amerca, we would hear fewer accounts of accidents from horses taking in my automobiles, et In my opinion a colt should be kept entire as long
as possible ; it will not only improve his apparan but also his character. He will be pleasanter to handle, safer, more reliable in harness, and far more
courageous and intelligent courageous and intelligent. If geldings
appearance, why are all the statues and
horses copied from stallions?
Neither can I agree that age makes much difference in the danger of the operation, although I have neve seen it attempted on anything under a yearling. may add that in this part of the country we have
passed the stage of leaving clamps on the cord for passed the stage of leaving clamps on the cord for
twenty-four hours, considering it an unnecessary cruelty. An emasculator is safe, simple, and not expensive, and
it is high time it was universally used. $\begin{aligned} & \text { it is high time it was universally used. } \\ & \text { Maple Creek, Assa. } \\ & \text { W. MACNAGHLIN. }\end{aligned}$

## Stock.

## Prof. Shaw on Stock-breeding.

While on his recent Institute tour through
outhern Manitoba, Prof. Thomas Shaw, of MinSouthern Manitoba, Prof. Thomas Shaw, of Min-
nesota, gave the following address on the principles of stock-breeding.
ciples of stock-breeding:
In the breeding of live stock, of whatever class,
there are three natural laws which there are three natural laws which operate. The.e
are: The law that like produces like in transmisare: The law that like produces like in transmisthe law of variation. and the produce like on No one of these laws is so unvarying in its action that the exact character of the transmission can be certainly predicted beforehand. But it
would probably be correct to say that the first would probably be correct to say the uniform in its action, and that the last is the least uniform.
The law that like produces like is the great sheet-anchor of the breeder. Were it not so, no substantial progress could be made. Breeding
would be absolutely a game of chance. The breeder would be out upon a vast expanse of sea, without a compass or even a rudder. The principles that govern this and every other form of ing, but the influences that determine the precise nature of the action of these principles are so many and so oftentimes so little understood, that absolute uniformity in results cannot be looked
for. It would seem correct to say, however, that Uniformity in results may be looked for in pro-
portion as transmission is potent. Transmission is potent in proportion to the prepotency of
one or both parents one or both parents. It will be prepotent in proportion to the purity of the breeding, to its
duration, and to its intensity, and also in proportion to the inherent vigor of the parents. the first fact is found a great argument for the ing up. In the second fact ares, even when gradwhy sires that have come from a long line of pure ancestry, especially, are to be preferred. In the third fact are found the reasons why males chosen
from families judiciously bred in line are ustally from families judiciously hred in line are ustally
more prepotent than other pure-bred sires of the same breed. And in the fourth fact ies the wis-
dom of giving much attention to the indications of bodily vigor in a sire, as a probable cuarantee of increased prepotency. But in choosing
sires the danger lies in too much intensity of Sires the danger lies in too much intensity of
breeding, and must be shunned because nf the
evils that would result from the same. Individual vigor. in a marked degree, is one of the most im-
portant evidences that the intensity if the
lireeding has net in the instancer carried too has not. in that instance, at least, been

Theoretically, equal prepotency on the part of
both parents would be more desirable than super- the limited number of instances in which they oc
ior prepotency on the part of one, providing the ior prepotency on the part of one, providing the cur. Man has utilized these in the instance cited,
individuality of both were equally good. But in but usually it is not desirable actual practice little attention relatively is given them ; hence they do not call for much atpetuate to prepotency in the female as compared with the on the part of the breeder. It is with ordinary prepotency of the male, and very $f$ roperly of his proseny, exercises ale, through the number on the herd as a whole than the individual female. Viewed from this standpoint, the imporIn fact, if such prepotency were the female wanes. the results sought from using a prepotent male the absence of Frepotency on the part of the female is to be preferred to its presence, since, in proportion as it was weak or absent in the fe-
male, just in that proportion would added improvement in the progeny come through the imThe second law lof breeding, viz., that like does not always produce like on the law of variation, furnishes the reason, but not the full explanation,
as to why the progeny are not always like ancestry. It might be supposed, on first thought that because of the operation of the first law of brecding the progeny would be an exact mean ings of the parents, when the individual furnishnever follows, since the exact measure of the pre potency in the two is never exactly the same. usually influences which affect variation are also grees of individual vigor at different areace debecause of different management. In these and is found a partial reason for constantly recurring
variations, but they do not account for all variavariations, but they do not account for all varia-
tions. So constantly recurring are variations that
some persons in their haste have said that the


Taking in the Situation on an Alberta Horse Ranch. on the part of the breeder. It is witk ordinary
variations that he is chiefly concerned, and he should show much decision with reference to the discarding of specimens for breeding when the those for fiture breeding when it is upward. It is far more frequently downward than ipward, in unison with the natural trend of human acacting moral influences. This does not countercessity imply that the causes are the same in the two classes of instances. But that the trend of ward does not mean that inty downward than upsacrificed in the herd than are retained must be improvement is to be continuous.
Atavism
mals born into third law of breeding, refers to aniwhich belong to ancestors mossessed of eharacters white which it is not desirable to perpetuate remote, white coloring of Shorthorns, the occurrence of the in Angus cattle shire swine on other parts than the foreh Berkand tip of tail, furnish illustrations. These feet ceeding of less frequent occurrence with These are discarding animals ; hence, with due viligance in uses, the instances of atavic transmiscion breeding expected to grow less and less remote in the not meant They should finally disappear. It is sion will cease tourse, that the atavic transmisansmission of those operative, but that the
disapable characters will A grade, strictly speak-
ing, is the ofispring ing, is the ofispring of a
pure-bred and an animal of pure-bred and an animal of
common or mixed bredin Either the mixed breeding. male may be pure, sut in pure and. the female
mixed blood mixed blood. The reasons
for breeding thus will at once apparent, whon it is remembered that to mate
pure females with pure females with males of
mixed blood would to to mixed blood would to to
lessen the value of the offspring. It would, of course, be grading down-
ward rather than ward rather than upward.
The importance The importance of using
pure-bred males and of good quality in all breeding, will be at once apparent to
those who understand the those who understand the
principles that govern breeding. fotent ; that is, they lave characters in the produce such as they themgeny
possess, because they are purely bred. This cones
irom a constant accu:nula- tion of similar accu:nula-
of variation is stronger and wore uniform in its
action than the law that like produces like is not true in animal breeding, howsoever it shay spend his strength for nought. He would never come into the show-ring with an exhibit showing
the get of a sire, or the progeny of a cow wiaich showed any reasonable measure of uniformity or denthlance, except through the results of acciThe constant variations that occur are not always to be regretted. The law of variati.n
may bring help to the brceder as well as the iaw may bring help to the brceder as well as the iaw
that like produces like. If this former law had no existence, the limit of improvement would soon
become fixed. The progeny never become , etter become fixed. The progeny never become 'etter
than the parents ; hence a level would soon l.e reached, bes ond which improvement could not the result would be paralizing to the ambitions
hreeder who now realizes that no limit has beon set heyond which improvement may not be car-
ried. But, zealously watching for variations in the line of improvement, especially in well-brect a himals, and using them iudiciously in breedling. the stepping stones of advancement and thus
climbed by higher by the breeder who aims to reach still have lieen diccussed thus far. But there is an"spontaneous," "/ sudden," or ""extraordinary." Thece variations ome unexpectedly. They are The ahs.nce of homs in a horn-bred is a case in petuate thomsolver, they are so fow in number They suon become lost again; obliterated, be-
cause of the little influence they exert, rwing to

They will have this
tinued pure-breeding. power in proportion to the length of the period to the excellence of the animals in the near ancestry, to the closeness of the breeding in the same, and to the strength of the inherent ruggedness of the constitution and bodily vigor of the
animal. A grade male cannot transmit his own good properties with certainty, because of the absence of concentration of similar blood units, arising from the mixed character of his breeding.
He cannot be expected to ransmit character He cannot be expected to transmit characters
with any degree of fixedness which are not stable even with him. since time has not been given to make them so by breeding within straight blood ines. and the more mixed the breeding, especially transmission of character the less uniform is the In upuradine the foundation
ly much mixed in incendation females are usual der them objectionable for such a use, providing they have good and rugged frames. In fact, the more diverse the blood elements which they poo-
sess-that is. the more mixed the character of the breeding-the more quickly will improvement be effected through the use of a prepotent male, as
the resistant power to the improvement effected oy the male in the progeny decreases in the fe-
male with increase in the mixing of the blood Mlements which she possesses.
When good pure-hred males are wesed from th and continuous until that point is reachod when for practical uses, the progeny have reached the chusen It is taken for granted that the feeding breeding are in the main which accompany such breeding are in the main correct. When pure
mated, the progeny will possess approximately 50 than the sea; that it is deeper than the depths per cent. of the blood units of each. But in uppure male has much more power, to effiect change than the mixed female has to resist the same ;
consequently the progeny will bear a much closer consequently the progeny will bear a much closer preponderance in resemblance will be in proportion as the power in the male, because of his purity, in breeding, to transmit properties, exceeds that of the female of mixed breeding to transmit the
same. The sum of the properties transmitted by the male will be much greater than the sum of the properties transmitted by the female. progeny will, therefore. not inherit simply 50 per
cent. of the blood units from the male, but much more than 50 per cent. In soue instances it same breed is used in the next mating, this inheritance wild not simply be increased to $87 \frac{1}{\mathrm{p}}$
cent., but to something over 90 per cent.; hen in four or five generations of such breeding, progeny will become fossessed of nearly 100 p cent of the blood elements of the breed from which the sires have been chosell. In other taken.
The possitilities in improvement, and consequent increase in value of live stock, which this
simple method of breeding will produce, are simple method of breeding will produce, are the farmer who refuses to use pure-bred sires is a loser because of such refusal. and the extent of
his loss increases with increase in the extent of is breeding operations.
Much confusion exists in the minds even of crossbreeding on the farm. In the highest and strictest ase of the lerm, it may be said that a cross-bred is the progeny of tho istinct pure no important place for crossbreeding on the farms of this country, for the breeds thus crossed are usually worth more in the pure form than the
cross-bred progeny, but, using the term with more cross-bred progeny, but, using the terin with more
latitude, it may be applied to progeny resulting from the mating of a pure male of ons breed with a high-grade female of another. For instance, a pure Aberdeen-Angus sire may be mated with a high-grade Shorthorn female. The progeny is
still essentially a cross-bred. Let such breeding be continued and the process at length becomes
akin to that of grading. Crossing of this charakin to that of grading. Crossing of this char-
acter is commendable in many instances, as it does not destroy purity of breeding, as it would in many instances it produces improvement in the progeny. Should the progeny thiough straight upgrading lose more in size, for instance, than is produce an out-cross by using males from some larger breed, and then returning to the usual line of breeding. For instance. should Shropshire grades become too small. because of environment
or for other reasons, it may be wise to introduce or for other reasons, it may be wise to introduce
one outcross of Oxford Nown hlood to increase the size, and then go back to the use of Shrop-
shire sires. The common idea that a first cross improves, and that succeeding crusses deteriorate, inuch depends on the nature of the cross. It is
frequently trae when pure-breds are outarossed.

## on a high-grade.

 I desire to emphasive the great value of highindividuality and high performance in the near ancestry of sires, or even dams, selected for
breeding. Descent from a remote ancestor of great renown is of but litile consequence. as in herited from him may have been practically eliminated by generations of crossing from other blood lines within the breed. To illustrate: The
search is frequent at present for milking Shorthorns of Bates breeding, or at least of descent
from such. But suppose four or five top crosses of Scotch Shorthorn blood lave been made in
the more recent generations, such females have The more recent generations, such females have
but little of Bates inheritance left in them: and yet such unimals are frequently ndvertised as
milking Shorthorns becalls their ancestry of lona ago were straight Rates in their hreding.
The hreeding of live stock on the firm is a subject so stmpe in some respects that it may
compared to a shallow pool in which a child can
wade. In other respects it is 0 areat decp which will cover a giant at the very frst plunge.
Among. the shallow Maces may be included the gen ral operation of the law that like produce purity and intensity of the breading, and that usually the influence of the parents of the recent
ancestry is greater in transmission than wat of the ancestry more remote. Among the great
deeps are the influences that covern variation atavism and sex in transmission, Ti, these may be added the influence of a previous impregnation
and the laws that control intrauterine develonin the study of the latter class of uhiects, he will be ready to conclude that the domain before
him is higher than heaven; that it is liroader
that many of its pathways are so dark that they ground avenues into which the light has never shone and which have never been trodden by the
foot of man. In these facts the explanation is found that breeders who have made a great suc cess of their work are fewer in number than legis lators who have made a great success of theirs Notwithstanding, the rules that govern trans success in the work are few and so simple that the child even can understand and apply

## Range Conditions Changing

## same channed the Live-stock Report notices the

 the South-west as we commented upon in of June 14th issue. In discussing this sulject ho says:affords into the range country at this time affords an interesting illustration of the develops all over wasteful methods of the new country where land is unlimited and competition is almost unknown to the conditions of higher land values and close competition that make it nece zary 10 make the
most of nature's bounty; to, at least, save what she so generously produces.
the older and lurer mactice co the older and harger ranches. Those who lav are loth to pive it up But men are graduod are loth to give it up. But men are gradually position, financially and otherwise, to operate on a sufficiently large scale to permit so great waste of circumstances, employing methods that will
more nearly save what the land produces, and thus get a larger return from a given area. growing forage crops which they feed to the cistie during the more severe weather of winter, freventing the large winter losses that are so gener-
ally characteristic of the old system. In Lomalities ally characteristic of the old system. In Localities where the old methods are still in vorue you are that have fallen ly the wayside, unable to eke grass. Now and then you come across a frot bers have succumbed, for lack of feed and shalter to the rigors of a winter storm. During a recent visit to the Panhan:lle country which the informant said 500 , ing a storin the past winter. In th.is inslance $\mathbf{s}$ me ierd had been provided for just such occa-
sions, but the range was still devended unon for sions, but the range was still dovended upon for
winter feed to such an extent that the cattle had not been placed where the foed could be gotten to them. The winter feeding not only saves
these tremendous losses, but also others that are less apparent.
The old time ran her is prone to not consider any loss that stops short of the actual death of
the animal. His first cfforts towards a chance to winter fecding are limited to the chinner,
weaker individuals that are less likely to survive the winter without assistance. These are usually while the practice prevents so large inroads as formerly upon the number of individuals in his
herds. it does not lessen the loss sustained by herds, it does not lessen the loss sustained by and stronqer individuals composing the main part This loss is no less real because the animals succeed in living through the winter. It falls,
moreover. On the thest individuals, and is all greater because of this fact. Much of the flesh stored up during the previous summer has been sacrinticed to the rigors of winter. A considerable in a given season. is consumed in qetting the aniWivions season, and the cows are not in a con-
dition to produce calves of as cood cruality and as great value as they would were they given more There are a number of factors that operate to ing. There is the force of habit which operates Country: where the herds are large it looks like owner nt once says: "It canced be dome: and the gettine the right kind of here is for carrsing on the have ohtained in the past. nuld mot he done on a horse for so lothe that he it is difficult to get any farming done at all, lot
alone getting it done properly. Dut the ranch-
men are gradually being forced into the chance and, as a result, are finding that many of their preconceived notions were unfounded. Based upnot stand the extra expense of winter feeding, but y proper winter feeding enormous losses are pre
vented, and the returns greatly increased. It is not alone in the maintenance of the condition of the animals that the returns of the feeding enables the ranch to carry a much winter eeding enables the ranch to carry a much larger
number of animals, as in the growing of forage crops adapted to the conditions they produce even with their present shiftless methods of till age, several times as much feed to the acre as is One of the chiff benelits
from more extensive feeding on these ranges will come through the supply of manure that it will ing need of all the emi arid woung is cr. greater supply of humus in the soil.
hhe people of all other new scctions, however the importance of this fact, and are not yet duced. They use of manure whe it is pro way, and then only haul it to get it out of the
do some gong put where it will

But all this will be changed in time a passing of the old range condtions, instead iessening the number of cattle that will be sent to market from this territory, will see an in-
crease, not only in the number, lout in quality as well. $\quad$ everyone who has studied the trend of the To everyone who has studied the trend of the
tock business this seems the only permanent means of increasing the price of catlle in our own wi'l vary, depending on the supply, 110 doubt, but the range country will never he able to compete seriousiv with grain-fed catlle in the world's
markets, unless more intensive methods are

## Limitations to Inbreeding

There is, probably, no one question connected closer study or more extended research than that which stands at the head of this article. The ing in a long linc of established, that by breedticular characteristics sought become fived in measure proportioned to the length of the line descent. Hence, in the case of male and female of a when coupled together, the special merit of the amily should be intensified in the offspring. This The close breeding in a particular line has been practiced more or less by all breeders who have acquired distinction in building up a family ular direction. It was in this ay a particJerseys was fixed, and it is through the same line of breeding that the great milk and butter performers of that breed are now being multithe thick coating of flesh and the white way that were fixed in the popular Herefords, and that Shorthorns that bore his name, and, recently, were fixed in the type that is giving them wide a distinction at the present time. But there is a limit to the extent
thich this line of effort in building up improvement in animals can be tensive development of a single characteristic carried too far, breaks up the balance of the aniThe constitution of against so one-sided a work. durance, must be built up along with perform ance, and kept in balance with it, or, when the straines, the animal will break down under ample, cannot be built up in production, as an ex tained indefinitely unless along with it are built up powers to endure the work. Milk fever among sequent disease in the great performing herds, of performance alone against the one-sided work art of breeding, wreng the great masters of the to what can be reached have finally set the limit breeding. The most disastrous example of thin kind known in the business, probably, was the Moing to pieces of the cattle from the New York at fabulous prices, yet proving of little auction breeders afterwards. Manv less noted value as ers intent ound among those dairymen and breed-In-and-intreeding, therefore vew. with advantage up to a certain unden practice Wht has proved a failure in every attempt to
pursue it indefinitely.--IAgricultural Gezet

## Bath and West of England Show.

 established in 1777 , went in its history, this socioty held its show in the Midlands. The reason for thi ham desired to have within their borders of Notting tural exhibition of the first importance. The Royal Agricultural Society was not available, having fixed itsshow in London, consequently this society, which ranks show in London, consequently this society, which ranks
next in importance to the Royal, was invited and accepted the invitation.
clearly in evidence during for British stud stock was the show. Round the pens of the Lincoln sheep and the other breeds in this section, and Shorthorn classes
it was quite noticeable the keenness with which South American buyers watched the work of the judges, and satisfuctory to find they were prepared to pay high prices for the successful animals. In fact, it was cur-
rently reported, that the lucky owner of the champion rently reported, that the lucky owner of the champion
Shorthorn bull refused the high price of 2,000 gs. for HORSES.
The Shire horse breed was practically the only breed represented in this section. Sir P. A. Muntz was one
of the leading and most successful exhibitors, winning both the gold medal for the best stallion or colt, and
also that for the best mare or filly, given by the S. also that for the best mare or filly, given by the Shire
IIorse Society, and in addition the reserve number for the gold medal for the stallions. The champion stallion was Dunsmore Bishop, and the reserve number Dunsmore Albert Hictor. In the Hackney section the entries were not very
numerous, but the superior merit found in many of the
leading winners to some extent ficiency of numbers.
The brood mare class had for its winner Miss Terry, sent by Mr. F. J. Batchelor. Mr. W. B. Tubbs won in
the five-year-old and upwards class with Morning Glory It the three and four year old classes the leading honor
went to that well-known filly, Crayke Czarina, whose
splendid action and beautiful symmetry made her a splendid action and beautiful, symmetry made her a
popular winner. The winner in the two-year-old class, Mr. J. P. Evans' Pollinaris, by Polonious, not only
won in her class, but also secured the Hackney Society silver medal for the best mare or filly. Sir Walter with Bouncling Danegelt, a very promising son of the cattle.
Shorthorns have probably not been present in larger
numbers for many years, which is mainly accounted for by reason of the central position in which the show
wus held. The class was iudged by Mr. wus held. The class was judged by Mr. J. Peter,
Berkeley, Glos. The older bull class found Mr. R. Stratton's Great
Mogel at its head; H. M. the King being second, with Royal Carlisle, and Mr. J. D. Willis third, with Match-
less Diamond-a trio of specially good bull ess Diamond-a trio of specially good bulls.
In the two-year-old class, one of the best of its age
seen for some time, Mr. P. S. Mills won with the rich
roan King Christion roan, King Christian of Denmark, a notably fine, typical Shorthorn. This was made the champion bull of the
show. Mr. J. D. Willis, with Doynton Brave Archer, show. Mr. J. D. Willis, with Doynton Brave Archer,
took second honors, and was $r$. ship. These bulls will meet again at the Royal Show, ship. These bulls will moet again at the Royal Show, keen interest by all Shorthorn breeders. Willis' Orphan
The yearling bull class had Mr. . . D. Wind
Chief at its head a very fine and promising youny bull. Chief at Agricola, owned by Mr. D. Church, who has
him for the Argentine, taking second honors.
The cow class was specially strong in leading ani-
mals, Mr. George Harrison, with Ursula Raglan, taking mals, Mr. George Harrison, with Ursula Raglan, taking
first honors, and Earl Manvers second with
Lady In the three-year-olds, first went to Ratcheugh
Witch, one of Mr. W. Bell's typical Shorthorns. Sir A. Henderson won first honors with Lady Buscot Grace, in the two-year-old class; whillot in a grand class of 20 yearling heifers, Mr. A. A. Haley had the honor of
winning both first and second prizes with Bright Jewel 6 th and Queen of Ankness.
The Hereford section was one of considerable merit,
and certainly most attractive. All through the several -lasses the quality of this breed, i.e., uniformity of type
and character, was most distinctly seen. H. M. the King, with that grand, deep-fleshed bull, Fire King, won Mr. E. B. Turner, taking precedence in the next class, and the Royal herd at Windsor was very close up with
Admiral. In the yearling class, Mr. E. Hughes won first with
Premier, and H. M. the King second with Fmperor. Mr. G. D. Faber, with Ivy Lass, a cow bred by Mr. R.
Grem, Won first in the cow class, Mr. R. Phipps taking Irst and second honors in three-year-olds. Mr. A.
Hughes' Ivington Plum was the winning heifer in the
two-year-old clnss. and Mr. C. . Pulley wom first and second honors for yearlings.
The Aberdeen-Angus shown, while not a very large Cridlan was very successful, his animals winning both of the special prizes offered-the gold medal for the best
lireeding animal, and the silver medal for the best female. The winner of the gold medal, Wizard of Maise-
more, led in the old bull class, Mr. Hudson taking sec nd place here.
In the younger bull class, the winner, Earl Fenwick.
is owned by Mr. J. H. Bridges, who also had the win-
ning heifer in the two-year-old class. The silver-medal
cow, Mabel VIII Mr. Mabel vili., won first prize in the cow class for
M. J. J. Cridlan, and the Rev. C. Bolden won first in the yearling heifer class.
The entry of Jerseys was not so large as we have indicate any loss of merit. The winning owners in the Drew, and Lord Rothschild. The competition in D. cow and heifer class was very keen indeed, and than of the entries received recognition in the award card. Between Mr. A. Miller-Hallett and Lord Rothschild there Nas a very close competition in the cow class. The took second place. Lady de Rothschild went the front in the three-year-old class, and Mrs. C. McIntosh won second and third. The two-year-old class found the latter exhibitor a close second with Havering very fine heifers sent by Mr. C. W. Armitage by two ling heifers, another good class, was headed by Benita $V_{\text {I., an }}$ an imported animal, exhibited by Mrs. C. McThe sheep section was one of great interest. Cots
wolds had not a large number of entries wolds had not a large number of entries, but the aver-
nge of merit was very good indeed. Mr. W. T. Gurne,
whose flock has a class animals in the world-wide reputation, led with firs and Mr. W. Houlton occupied the same position for yearling ewes.
The Lincoln hibited at this show, which has not before been ex tunity ofrered them, and made an entry of particular merit and high quality. The winning two-shear ram,
owned by Mr. T. Casswell, was made chamuion owned by Mr. T. Casswell, was made champion, and
his superior merit and quality was speedily recognizod his superior merit and quality was speedily recognized
by the Argunine buyers present, several offers of high


Judging Two-year-old Bulls at Calgary Show and Sale.
figures belng made for him. Messrs. R. \& w. Wright
came second here, and Mr. H. Dudding third. The came second here, and Mr. H. Dudding third. The
yearling ram class of 11 entries was a good one, all $\mathbf{W}_{\text {right }}$ won first honors, and Mr. Dudding second. The latter exhibitor was first and second in the ram lamb
class, with lambs of superior merit and notable quality, and Messrs. Wright, with half a dozen yearling ewes of Southdowns came out in fine quality, Mr. C. Adeane winning first for yearling rams, a position that was closely challenged by Mr. E. Ellis, who came second.
Mr. C. Berners was third, and H. M. the King r. n. Mr. C. Berners was third, and H. M. the King r. n
In the ram-lamb class, Mr. Adeane won with a pen notably fine lambs, and the better one of the two well
deserved the champion honors he secured. H. M. the King was second, and Mr. Ellis third. The rosition
of these two pens could well have been reversed. Mr. Ellis came in first for yearling ewes, and H. M. the The Hampshire Downs were represented by an entry
of very superior merit and quality, and Mr. Jas. Flower had the honor of winning in three classes, whilst in the fourth, in which he was not represented, the
leading honor went to a grand pen of sheep from Mr H. 'The Stephens' llock. sheep section, and in the yearlings ram classes the win-
ner from Mr. Williams' flock was one of high quality yearling ewres.
Oxford Downs made an entry pleasing and satisfac tory to all interested in this breed. Mr. A. Brassey ram class, and also in that for yearling ewes. Mr. J ram class, and also in that for yearling ewes. Mr. .
T . Hobbs won in the ewe lamb and the ram lamb
dlasses, with animals of superior merit.

Berkshires were PIGS.
Berkshires were well represented, and the quality
good. Mr. G. T. Inman for that splendid boar Highmoor Mikadompion hotiors exhibitor was first in the breeding sow class. Mr. J.
A. Fricker, Mr. shire, and Sir A. Hendergón, Bart., were ell of Devonthe run for leading honors. Large Yorkshires made an entry of real merit and quality, and the competition all through was keen. Thie exhibitors and other experts of the breed. The Earl of Ellesmere was first for boars, pairs of boars and sows, Greenall, Mr. D. R. Denson for pairs of sows. Sir G. of the leading pigs, and a better lot of Large white sows have not been seen together for many years. C Tamworth breed was a first-class entry. Mr. with a sow of very high merit. The same challenge cup, also successful in other classes, with piga of high merit Ibbotson quaty, and Messrs. D. W. Phillips and R. I. Ibbotson took the remainder of the prizes, with pigs, in
nearly every instance, of high quatity and merit.

## Making Shipping Crates.

Now that so much stock is bought and sold by correspondence, and shipped in crates by express, minimum cost is a matter worthy of consideration. The increasing cost of lumber renders it press companies charge for the gross since exthe animal and the crate combined, it is important that the weight of the crate be as lighit as possible, consistent with sufficient strength. Where a considerable amrount of business is done, it
good supply of lumber of the
required widths order to havo it seasoned and required. Eass-
wood, where it can be secured, is quite suitable, or pine reason-
ably free from
able knotss.
widths
The suitable for the
sides, as a sides, as a rule,
are six inches for the lower
bars, and fcur inches for the
upper; the width apart of
the lower, thire inches, and of the upper, four
to six inchos. Fior shipping
pigs two to
three months old,
stuff
is
is scuintly is sufh-
cion ends, and, indeed, for bottoms also, and threo inches wide for the upper side bars. A handy way of inch pieces for sills the required length; cut one inch or half inch boards, as the case may be, the length of the width of crate required, and nail these and you have a solid bottom. Flinch the nails, corner-pieces, use $1 \times 4$ inch stuff the required height, or 1 ※ 3 inch for light stock. Nail these lengthe sills, then cut your top bars the same side of the bottom, and nail them on the inside while this is being done, so that the uprights lie flat on the floor: next lay the lower bar and the intervening ones, and nail all with crate is nails, to be clinched on the outside. If the rights should than four feet long, central uphail on the side boards. Now cut cross pieces of x 3 inch or $1 \times 4$ inch, two inches longen than the width of the bottom; nail these on the right width apart, turn hold them from bottom and board up the front end close inches of the top. For the hind end mat or six novable door, which can be slipped in and takeare apt to cut into the skin close, as open bars they will press backward, or rub off the wool of a sheep, and also allow the voidings of the animals to soil the outside of the crate and the floor
of the express car in which they are shipped of the express car in which they are shipped.
The making of this slide door is not easily described in words, but a little ingenuity will work
across at the bottom and another at the top the rear uprights, then take two $1 \times \frac{x}{}$ inch from floor to top of crate, and across these nail inch boards, width of crate on outside of upights, the lower four inches from bottom end or prights, and the upper, say six inches from top,
sliding door up at top in putting it in, and then in at bottom inside of battom cross bar. A nail driven part way in through one board on each side inta end uprights keeps the door from being
worked out of place, and is easily withdrawn with a hammer when taking the animal out. few slats across or lengthwise of crate, on top finishes the contract.
This is one way of making a crate. It is not in construction and strong enough for ordinary purposes. A cow has been safely shipped in a crate made on this principle. Others may be able to supply descriptions of better, cheaper and
more easily constructed crates, and if so, we shall be glad to receive such sketch or photograph of same.
Any farmer or farmer's son should be able to make a crate such as above described in about convenient shape, the only tools needed being hammer, saw and square, with, perhaps, a draw-ing-knife. For the sake of neatness of appear
ance, it is well to have the lumber dressed on ance, it is well to have the lumber dressed on
one side at least, though in the case of half-inch boards this is not necessary. Make the crate high enough that the back of the animal may not be rubbed by the top bars, and long enough to avoid cramping unduly, the animal to lie down comfortably with its feet under it. It is well to have a list of dimensions for different ages written out and tacked up over the work-bench variations from which may be made to surit spemal, to be sure you make the crate large enough -better too large than too small

## Farm.

Selection, Care and Marketing of Farm Products.
est educators at farmers' institute meetings are the men who have made a success of their business, and are consequently in a position to advise farmers how
certain things can be done profitably. One of this class of men is Mr. J. J. Ring, of Crystal campaign, whose subject was that at the head of campaign, whose subject was that at the head, of remarks:

The great point in getting horses or stock of any kind ready for market is to get uniformity to produce a type. For instance, in cattle: Onc
farmer has Shorthorns, another Herefords, yet another Galloways, or, perhaps, each farmer has a few of each. The result is, when a buyer apuniformity, but some will be rood and some poor. The price of the good stuff is kept down on account of the poor stock that must be taken. The farmers lose a great amount of money each season for tha very reason. the only and decide to keep to one type, let it be
Shorthorn or what it will, the majority to decide. In this way, when the shipping time comes, more equal and thus better stock, and secure a better price. In shipping, avoid the middle man. Choose a good representative farmer and send him to Winnipeg with the lot. When he arrives he need only call up the principal dealers and tell
them that he has a load of stock in the yards and ask them to come down and see them. At first the reply may be somewhat lukewarm, but
after the dealer once sees the cattle the matter becomes easier. At future times, when the load comes from this point, the dealers will be on the back the sale until they can come down. This " It is not necessary to go into pure-bred
stock; the common cow will do just as well. The offspring from a pure-bred Shorthorn bull Shorthorn; the next is more nearly pure. So,
in this way a farmer can breed into good stock without going into heavy expense. ly in favor of it. It should not be done until
they were about 12 years old : that is, until they had become thoroughly accustomed to the taking up the bunting habit."
The speaker himself thoucht that the Short. korn was the hest all-round brece of cattre,
if the rest of his neighbors bred Calloways, he type. In horses, similarly, his taste was chydestale,
he peneral custom and keep Percheron ir sum
the hay will be iound fresh and green. If the crop is cut for hay during the second year it can
be cut with a mower, as all the stubble has disappeared. The third season it should be pasured ; in fact, many cut but one crof, and pas-
ture two seasons. This necessitates kecping much stock, but that is to the advantage of the farm-

During this one year, or two years, as the case may lbe, every foot of the ground is well packed, and you may talk of a roller or packer as you will, earth like a cow's or a horse's foot. If the above system is followed no roller or packer is needed. In addition, an even coat of manure
has been put on. In the third fall the grass is has been put on. In the third fall the grass is often be done during the wet times of the harvest Season, and your cattle have the use of the pasture all summer. Do not harrow the fall plow-
ing ; leave the surface rough more snow. The uneven surface retains the snow and stores up more moisture. The next spring this is sown in wheat, and the The nexd begins anew. It takes time to get into this sysThe soil under this in a few years. When the sod is broken up the surface of the ant to the eye, but a rough mass of tangled fibrous roots. But the humus exhausted from
the soil by the crops has been replaced and can the soil by the crops has been replaced and can
only be replaced in this way. It is estimated that ten tons per acre of humus is restored to the soil from timothy. The further benefits are numerous. The land is in good condition, and overrun the fields; the farmer enters more extensively into stock; his income depends ex longer on the precarious outcome of the wheat
crop, and finally the native strength of the soil is restored through the fertilization.

Travelling for Agricultural Knowledge. Long ago the famous educators, Pestalozzi and Froebel, strove to impress upon the teachers of gaining instruction about that the best method ters is seeing and doing. Since their day Learn to do by doing" has become an educational axiom, whose value is being daily proved in school, laboratory, technical institution and manual traiming han. It stands to reason that lines must also be in ther which is a science as truly to be agricuture and benefited by according the skill thoroughness to accoraing the skill and other curricula. Deumark, to the fore, as any in all things pertaining to agriculture and dairy ing, has seized upon this fact, and is putting forth every possible effort to provide for the further instruction of her people in these sub-
jects. "Learn to do by doing," he her slogan to the farming world has become that as few obstacles to the best results as pos sible shall stand in the way, she has hit upon a hurnu- cleve cupeaient
Among these is that of providing " travelling various experimental farms and dairy visit the the lowest possible cost. and dairy schools at
they are expected to take actual these visits they are expected to take actual part in the operations wiich they have gone to see, and in
this way are likely to have facts fixed firmly up On their minds. Briefly, the method is this: sum of hey cevernment sets apart a certain who wishes so to travel sends in his applicaicion to one of the offices of the Royal Danish Agrisupplicd with a book of out. He is thereupon supplied with a book of coupons which will surve also with a plan, setting forth exactly he visits, must go, and at what date he must arrive at
and leave each point. 'This plan he must 1y adhere to. His coupons, marked at cach
place on the route and returned at the end of
the trin If he does so, well and good; if he does not. he forfeits a certain amount for each day wasted. and engage in practical work; any neglect in to headquarters, and he must wuffer by a a de-
duction of the amount allowed him travelling pualls, always be an opening for ordes Co stay at any school to which the former are Owing to the small extent of Denmark and the exceedingly low hoard rates prevalent there, this
plan is found very feasible annditions do not obtain, but many of our farmmight he telling a few of them a trips. and it
formity ruling breed in his neighborhood. Unineighborhood, and thus create a market. The cheron, etc. is what is wanted, but in all cases avid the Standard-bred horse for the farm work. in breed condition must be taken to keep the mare being too fat In reply to a question as to work ing a mare in foal, the speaker answered: "Cersuccess. The mare must be handled carefully ; so, there was no danger. In working a mare
with a young colt, if the mare is very warm when brought into the stable, she should always be milked, the colt not being allowed to get The same course as in the two previous cases is to be followed with swine-all agree to keep
Berkshire, Tamworth, or Yorkshire, as the case may be.
oats and meod mod of providing fecd is to sow The variety of oats best adapted for this is the Commonwealth, which ripens at the same ti:ne as

## Rotation of Crops with Grasses.

Ring delivered the following remarks on the above subject on the recent Farmers' Institute that rotation of crops and summer-fallowing were questions of vital importance to the West, and that he was opposed to summer-fallowing beCause, first, the farmer could not afford the land; a desert. On the question of make out 30 per cent. of the land each year without a crop, he pointed out that a business man who followed such a principle could not survive in trade, and
must go to the wall ; nor could the farmer afford to do this any more than the business man. I stead of leaving the land idle to grow rank with weeds each year, seed down a section of the farm ever variety is suitalle. Again, suminer-fallow ing the land causes it to hlow. The heoviest land in the Red River Valley, under this system top is drifted away. Travelling through Mani the road or against the fences so hich that looks like a railway grade. The sand storms of Southern Manitoba are becoming notorious. A farmer needs a title deed that will hold his land avoid summer-fallowing, and grow trasses this connection, it is interesting to trace the course of the northern limit of the wheat belt. A few years ago this was in the Genesee Valley,
in New York State, later Wisconsin, Minnesota, Dakota, into Manitoba, and now it is far north
of us. The majority of the above sections not grow wheat to-day. North Dakota does, but only averages about 15 bushels per acre, a yield
that we could not live upon. Much must be attributed to this system of summer-fallowing
which has impoverished the land. wheat system of rotation of crops begins with grade of wheat should be sown if :he very roturn "Whatsoever a man soweth, that shall he also reap." A person that wishes to have an extra good
sample of seed, when the crop is about ready to cut plucks by hand the earliest and heavics of seed, but the result pays for the (Mort, This ess of selection is again followed, and finally presults in securing a good, hardy, early strain of
wheat. The effort is laborious, but amply shows that good seed produces more than proportionati-
ly good results. Many farmers sell their he-t wheat and sow the poorer grades, but this is a
short-sighted policy. Sow the wheat thick bushels per acre-as this serves to choke out the The next season the ground is sown with oats,
followed by barley. Three seasons in prain, folbe an ideal system of rotation. or whatever is
The grass seed, timothy, or thought to be most suitable, is sown with thin
third crop. The best way lo sow the timothy is liy means of the broadcast attachmont to thic
seeder. If sown mixed with the grain, Sow across the furrows; otherwise, when along the
ridece, the seed is Fut in at unequal dhpths. Five
pounds of timothy seed to the acte is sumficient. It is better to cut the first crop of timothy with
a hinder and stook it. This means easior handling, and avoids much inconvenience with the pre-
vious year's stubble. The stubhly . . Whe hothon
of the cheaf keps it open. and the crop can he without any danger of spoiling: or if left out
side for a considerable period. it will take littl
$\qquad$


A Famous Plowmaker
Throughout People's Journal, Dundee, Scotland. Throughout the whole of the Carse land bordering many a parish beyond it, the name of of Pateramanans schilled plow possesses a charm for the worthy son of the soil,
who prides himself on "haudin' straucht," weel furrit" in the prizelist as each recurring plowing match comes round. So the subject of our sketch, not need much introduction to "' Journal", Alloa, may story of his long career can scarcely be "ther than The story of
teresting.

> TYPICAL SCOT.

For here you have a noble type of the $S$ sot, who
orms a living link between the most up-to-date methods forms a living link between the most up-to-date methods laborious system of the past, when harvesting the the prolonged wielding of the sickle and the scythe, and threshing relied on the wearisome thud of the flail. In
both epochs "Dauvit", has played his part. He was born at the rural smithy of Carnock, near Airth, in "fee'd" with the parish minister. During three years' service at the Manse he developed a turn for handling the plow, a turn which in later years became an allwaned. At 14 he started which his interest has never waned. At 14 he started as apprentice in his father's
shop, and hammered iron, as four generations of his forbears had done before him. After 62 years at the forge he hammers it still; his hand has lost little of its praving the type of plow in general use and in in improving the type of plow in general use, and in this he
was so successful that in no part of Scotland could better plowing be found than in the region round Carnock
Smithy. David tells how 51 years ago he crossed the Forth to compete at a great championship plowing watch, which took place in the classic "Hawkhill "
field at Alloa. One hundred and fifty plows faced its allotted half acre, and our hero, determined to give his plow every chance, handled it himself. The match was advertised as open to all, and he was ". makin'
gran. wapk." But some aspiring champlons, and others interestod in thi success of rival plows, made a "hullasmith among the

Such A JUDGE O' PLOOIN'. adopted a specied rule, "that all compe committeo bona-fide plowmen." The judge approached must be reply was characteristic. "Weel, sir, I suppose sou're a judge o' plooin'; jist cast yer een ower that rig man, that's just the faut ; you're plooin' ower, weelsmile. "But, tell me, are you the smith of Carnock?" David, of course, adnitted his identity. "Aye," he declared proudly, "I'm the smith o Carnock. I I made the ploogh mysel', and I'm gaun to haud it mysel', get
the prize wha likes." ". Weel ! weel !" said the judge, "Im rale sorry I canna gie you the prize. You've the best plooghed rig on the field, but, ye see, yer a smith." But our hero's day's work was not without its reward. Far and near the virtue of the plow and the skill of a plowing match has taken place throughout the shires of Stirling, Fife and Clackmannan without some of the
chief prizes being annexed by a Paterson " plow. In chief prizes being annexed by a "Paterson" plow. In
the long period of 54 years Mr. Paterson has missed attending the famous ten-parish match, held annually at Falkirk, only twice. His attention has not been
confined to the implement branch of the trade.

> IN STEEL AND IRON. His renown as horseshoer was vast

His renown as a horseshoer was vast, and few coun-
ry smiths could set a lame horse "o square on his pins, try smiths could set a lame horse "square on his pins,"
and send him on his way rejoicing, better thian he. Almost a score of years ago his increasing business con-
nection compelled him to look around for a more connection compelled him to look around for a more con-
venient center of operations. So he crossed the Forth venient center of operations. So he crossed the Forth
to Alloa. On leaving Airth he was publicly entertained by his farming friends, and presented with a valuable gold watch and chain in recognition of the painstaking care and trouble he had displayed in business, and as a boomed Yankee chilled plow struck the market 16 years syccumb. Admittedly the "Yank" was a splendid innovation. Mr. Paterson, however, took the matter
with a philosophic calm. "Why not a Scottish-chilled with a philosophic calm. "Why not a Scottish-chilled
plow ?" ho asked himsell ; and with the able assistance of his two sons he started to work out the answer in
steel and iron. For two years he plodded, experimentsteel and iron. For two years he plodded, experiment-
ing, constructing, tearing down, and consigning to the ing, constructing, tearing down, and consigning to the
"scrap bing " many an unsatisfactory production. He expended pearly a hundred pounda for patterns.
veterian " son of vulcan."
But eventually he triumphed. He invented a plow which on many a well-plowed rim. The smith has not been a laggard in the world of sport. Fifty years ago, as the bow-oarsman
in the famous Dunmore team of rowers, he pulled in in the famous Dunmore team of rowers, he pulled in
many a hard-tried race, and in those days the Forth The championship race was decided over aeven miles: course. The Dunmore lads annexed premier honors rereatedly. On the ice, too, David was, an, expert, and
even on classic Carsebreck he is no stranger. With ere on classic Carsebreck he is no stranger.
glee he tells of a great game played between his rink
and the illustrious Northern men from Breadalbane, in
more could be written of the experiences of this veteran What the Cream Separator Has Done for "son of Vulcan" did space permit. But, summarized brielly, we may say his is a personality the world could
do with many more examples

## Whiffletree for Six Horses.

We have a nine-foot cultivator, a wide set of disks We sometimes put six horses on the cultivator, disk. or roller, and fasten the harrows behind. Six horses are handled as easily as four. We put the fastest walkers on the outside, with ordinary lines on them
and tie from bit to bit along the center of the strimg

ench end. $\quad$ B is iron, one with a nook bolt screwed in in your columns for three horses. One of these iron ing upright. This allows six horses to be used with
ind having an extra long tongue. L. M. Brown.


Lord Kimberley (2536).


## Dairying.

## Rules for the Milkers.

The following is thie text of the rules for milking issued by the Danish creameries to the farmers, and
applies with equal force to all who have to do with MILKER, MARK THIS WELL.
$\qquad$ ment entails less labor and gives more milk. (a) muk clean. Clean milking develops the udder, and with this increases the quantity of milk, and (b) You receiv richer milk. (c) Remember that the milk last drawn is by far the most valuable
3. Cleanly milking.
clean clothes (b) Have the You should wear tidy and the creamery can. (c) Thoroughly clean the udder by rubbing with a piece of linen. (d) Wash the hands thoroughly before millking. (e)
dry before you begin to milk.

Carry out the work properly. (a) Milk with dry hands. (b) Seize the teats with the whole hand fast Keep a gentle pressure on the udder. (d) Milk as fast as you can, and never cease working until the milk
is wholly drawn. (e) Don't strain the teat beyond its drops. 5. Healthy state of the udder. (a) If there be
soreness or lumps in the udder or teats, etoppage in the milk canal, or unnatural colored milk, don't mix
6. Milking times. (a) Begin milking always
fixed times. (b) Milk the same cows in the same o ared times. (b) Milk the same cows in the same FARMER, MARK THIS WELL. 2. Have good air in the stalls.
degrees, and should be held at that until called for by the cream collector. One of the inex quantity of cream is great.
to prioperly care for say you can't get farmens don't believe it. I have more faith in their ability and desire to do tho proper thing thei many cases the neglect is only due to their not knowing what is required of them. I feel sure can with the makers to build in every way they until no better butter than that made in Canada is found on the markets of the world. In closing, I would like to say a few words about the care of the separator. The very bes needs careiul treatment strain on the parts and to insure smooth running, the floor or foundation on which the sepa ly level and sccurely fostene machine perfect bearings should be frce of arit and every weok or two well flushed out with coal oil
The high speed at which the machine runs,
makes it most necessary that it always be well oiled, and only the oil that it always be well oiled, and only the oil furnisked with the ma-
chine, or erfually fine oil be used Speed ohowld be gotten up slowly, and in turning the crank the same pressure should be applied all the way around. Before turning on the milk put through Milk always separates and wet the bowl it is drawn from the cow. is itmediately after or 85 degrees it should be heated to about 100 degrees, although no harm is done by getting it quite hot. Run the machine up to the stated tra loss of fat in the skim milk. A machine doing good work should skim to . 05 , and never should have over 1 per cent. fat left in the on the separated skim milk, thin scum of cream Have the flow of milk into the even as possible. The quantity of nilk in the eceiving can has much to do with this, and should to kept reasonably full all the time. flushed out with warn water and the should be allowed to run down of its own accord Care should be exercised in taking the machine apart and putting it together not to blunt hines seriously injured by a llttle carelessnecs in this regard.
or is now considered almost a necossity certainly is a paying investment, and few farmers an anord to be without one

## Cream on Buttermilk.



Caring for Mill on the Farm.

## Colto for on the rar.

 Departhowing notes, sent out by the Ontario Department of Agriculture and Dairymen's Associations, were prepared by Prof. H. H. Dean, worthy of carcoul study by andicultural College, and an The cows sloould be healthy and clean. Colos trum (Beistings) should nut be sent to the facdry, and free from bad odors and bad-smelling weeds. The from bad adors and bad-smelling and wholesome. Cows riving milk phould sweet be allowed to eat brewers. groins, dis tillery slops, turnins or tons, rape, mouldy meal, spoiled hay or spoiled silago, cleanings from the horse stable, or anything which would tend to taint the milkEither rock or common salt should be accessible to the cows at all times. Plenty of pure water ought to be within easy rach of milking cows. Foul, stagnant, or very cold water, are injurious.
Cows should be milked with clean, dry hands, after wiping the teats and udder with a damp loth. The milk should be strained at once after milking through a fine wire strainer, and also The struo or three thieknesses of cheese catton The strumer nceds special care in keeping it The mile pairs and can must also be clean milking yurd as soon os from the stable or It should 60 degrees-certninly below 70 degrees by the cans in fonks of cold water, and by stirring the milk, in order to facllitate and by stirrin there a supply of cold water under pressure, available, of the inany ions of cosure, is


Carrie

sary sary that the air be pure where this form of cool-
ing is adopted. After the milk is couled to 60 degrees (and where saturday night's and Sunday morning's milk is to tee kept over until Monday morning, the cooling should be so low as 50
degrees in the hut weather), the cans may be
coverud with covered with the lid or with a piece of danup, lean cotton. liy leaving one end of the cotton milk math cooler. Night's evall tend to keep the should the kept siphate as long as possible.
If the If the .1.lk be Hacen on a milk-stand some tine before it tarts to the factorv, the
stand should be covered and boarded in on the cides, and the whole neatly painted a white color. Milk should he protected from the rays
of the sun, from the dust and from the rain-
water.
If possible, the cans should be covered with a
canvas cover wilile canvas cover while on the way to the wietory,
especially in hot. dusty weather. It is needlusity especially in hot, dusty weather. It is needless
to say that the wagon, the man, the horses and to say that the wagon, the man, the horses and
the harnecs should be clean, and a credit to the great dury industry, of Canadia.
Where iracticablo. the cans which are not
used for the returning of shim mill chould he used for the recturning of skim mhich are not
washed and stuamed he the creamery or chees he as soon as mossible if or himing emptiond ches our 54 $-\mathrm{x}+\mathrm{x}$

and aired in the sunshine before milk is put in it again. The whey tank must also be kept clean to have everything clean in caring for inilk ure, the night's milk) as rapidly as possible to a RE CLEAN !
dees, if possible.
KEEIP COOL

## The Process of Milking

While we await the advent of the milking ma chine in Canada, some notes on the good ol
way by Wm. Smith, in the Scottish Fariner, wil of service at this time of year: Given a clean udder, the milker will rub the and begin by milking the fore teats with the full dry hands. When the teats are short the milking has to be done with two fingers and the thumb, until there is room for the whole hand The milking should be proceeded with as rapidly fingers should go well round the teat, pressing the teat against the cushion of the thumb more will panto the hollow of the hand. The milker fore and back teats, until full streams of the are no longer obtained, and now begins of milk important stage of the milking process, and it is here the milking machine fails. Up till now assistance of the cow to udder and the natural assistance of the cow to give up her milk, ha:
kept the core, or outlet cistern of the teat full as fast as the milker could take it away, and this has been practically the skimmed milk, but the fat, which is lighter and more sticky than the
skimmed milk, lodging in the ducts which to the cistern, requires in the ducts which lead it away. When Mr. Howie, of Netherauldrouse was in Denmark last year, along with a deputa-
tion of experts, he saw or heard about called the Hegeland system or milking which is simply going further up on the udder, and usin the external pressure to bring the cream down wards. which cannot be brought down by suction at the lower end of the teat. Indeed, the pulling
of the teat is contrary to what is needed to kot. the cream. Where you have a large, fleshy udder, it is necessary to take the quarters one by
one, but where you have a nice silky udder, you can take them in pairs. The hands are presised towards each other, and at the same time up-
ward, the same as a call would do with his head This pressing is done two or three times, taining out the milk collected in the cistern. It is a
sort of massaging process. Resorting in the end sort of massaging process. Resorting in the end
to stripping one teat at a time, when the thumb,
instead instead of going round the teat, is placed perpendicular and pressed hard as high up as the
looseness of the udder will admit looseness of the udder will admit. This is ex-
haustive milking, which tends to increase both the quantity and quality of the milk, and pormanently develop the dairy qualitics, of the whole
herd. It is claimed that carefully carried out, the fatty contents of the milked without this manipulationared with cows the strippings is a serious loss to the farmer ond a danger to the cow, and so long as the milking machine cannot follow the udder as it empties quarters to get the "afterns," it is do press the failure, and the same thing applies to bad milkers. They simply rob their master and injure the

## Uniform Marked Weights of Butter.

received irom representative bodies and leading the matter of a uniform weat Britain, concerning is intended to be the 56 -pound of butter in what that boxes are frequently marked. It is stated even 60 pounds. It is not clained that anc more than those which the marked weights any the obiection is against havinfrked 56 pounds than 56 pounds in each packaec. The or less makers of New Zealand, Australia and Arpunter in their wareful on this point, and the uniformity trade. The 56 -pound mackappreciated by the cause it represents half an English adopted be tages weight is marked, and invoiced, the If any butter merchants in a standard are lost. Th influenced by a matter of this lain are as much by the quality of the butter itself. New lara-to-day more on account of its uniformity inan ment paper whichent is usckages and heavy parch tion which is riven to weigining and branding. menal offence in New Zealand to place and is a
than the true net weight on a package of butter
or checse. 3 mater -va

Horticulture and Forestry.
Luther Burbenk and His Work Our readers will be much interested in seeing to-day
e portrait of Luther Burbank, whose apparent mirales in plant life have drawn upon him the attention of
 the world. Of his
work it is scarcely necessary to speak.
Everyone knows Everyone know
something of wha
he of how he has han-
ished
is hempled ished the thorns
from
the cactus,
turned the yellow California
crimson, poppy
produced an everlasting that
will not lose its new fruits-the plum-
cot, for example, Cot, for example,
which is a cross between the plum and
apricot-while mar-
vellously improving vellously improvin
others; hut no
everyone, perhap Burlank Rosct, which took realizes the econo-
the God Medal at the $\begin{aligned} & \text { mic value which his } \\ & \text { meductions possess }\end{aligned}$ Lour iana Purchase Expo
sition, St. Louis, 1904 . (Son, St. Louis, 1904. productions possess New York Inde-
pendent: ${ }^{\text {. }}$ Varlelfes hardier, growing in regions where the old varieties
failed; the fruit season has been prolonged several months by early and late hearing varieties; keeping
quanlities have been developed so as to stand long disremoved, thorns eliminated, shells made thinner, flavor color and odor improved, and entirely new fruits pro-
duced. Grains and fodder plants have been made larger, more prolific, more nutritive, and to have less
waste; cotton, rice and sugar cane have been improved To llowers have been added beauty, prace, perfume, size and color. . The practical value of this can scarceMr. Burbank lives very quietly at his home at Santa a gigantic scale, which requires all of the vast profits his farm at Sebastopol, Cal., "' there are now growing nis
300,000
varieties of plums, each tree grafted so as to
cuntain 500 difercnt nearly or quite 500,000 lilies growing on the place, from 65,000 seedling plants, and from nearly a million seedling pears no tree worthy of propacation was pro-
duced." $\begin{aligned} & \text { But, quietly as he lives, his name has }\end{aligned}$ cravelled far to lands across the sea, and everywhere it
meets with recognition. When it was spoken in the meets with recognition. When it was spoken in the
French Chamber of Deputies at Paris recently, "every The forlowing letter, from his sister, to he Inde lendent, tells something of his life My brother was born March 7 th, 1849 , in the


## 

 ( My fithor was an wan aWho Fave ausiness man, mild the
West
 Reduced from lifo size
 Hencies to her son the invente and horticultural dencies to her son. Luther's first toys were the plant
in the window and in mother's flower garden; ho neve Thhlessly destroyed a blossom, but loved them
hinus of life, and a bright flower placed in the Things of life, and a bright Hower placed it
hand would always stay the falling tearrs.
A quict, retiring child, shrinking from notice, Luther
spent much of his time with nature ; he know more myone else about the apples in the orchard, the wild hnst thuts and hickory nuts in the woocs. grasies, the
He knew Where to find the first blossoms of spring and the
Mriehtest fowers of summer. The birds and animals Hllurod him, and no rock, tree or cloud escaped his
The habit of observation and classification With the Hower of individualizing which he posscessesen. in "the district sthool and the Lancaster Academy he oxIlld in scholarship, and was a favorite with teachers de, Alasterature, and the town had mens of the liest with adwnages, delighting in hooks of scirnce, yet his rad-
ing was not limited to one subject. At one time his nhf was not limited to one subiject. At one time his
thoughts were directed toward the practice of medicine
been of groat interest and science body, of such prest to him; with naturally a frail had collectors in foreign lands, an accquired that few men have been able to accomplish as physical work in life as he. Utilizing all his powers, each morning takes a cold sponge bath and a few physical-culture exercises, and is as active as a boy and vigorous.
Another subject of interest to him is mechanics, always keeping in touch with the latest discoveries and
inventions; his early experiments along this line were


Luther Burbank.
with an o'd teakettle in the backyard. While studying the Academy winters, he spent the summer ruonths letters written to the home folks while there reveal his intense love of nature, and to her call he responded, Burbank potato in 1873.

New England home tell how the beauties of the Sant Rosa Valley, afterward to become his home and in scrne of his plant transformations, appealed to his husiastic temperament
arth, the climate is therfect, the chosen spot of all th pleasure to drink it in, the sunshine pure and sof The mountains which gird the valley are lovely, and human valley is covered with majestic oaks placed as

mproved Peach Plum. Branch 3
dens are filled with tropical plants, palms, figs, oranges, with every color of bud and blossom. English, ivy fills large trees, amd dowers are everywhere, even now (No-
vember). The birds are singing, and everything like a beautiful sprimg day. I took a long walk to-day, and
found enough curious plants in a wild spot of about an (ound enough curious plants in a wild spot of about a Since coming to California he has collected plante Penetrating into the secrets of nature, finding un edge of the habits, characteristics, adaptability and latent possibilities of plant life possessed by no other This has required patient toil, privations and self-denial; often misunderstood, sometimes misrepresented, thwarted and disappointed, but never discouraged or impatient,
he has gone steadily on with his experiments. Life is very simple in the viecorered Santa Rosa, with his plants as his only family; the mother, now past ninety years of age, shares his home and rejoices to see her son honored of the world, re-
vered by associates, respected by employees and loved ty all.
Strong in his principles and convictions, ho uses neither tobacco nor alcoholic drinks, and employs no men addicted to thelr use ; he recently declined to have a new brand of cigars bear his name and portrait. He
subscribee to no creed, believing that each to-morrow : hould

Find us farther than to-day,
Tender in his nature, he may be seen soine early Wants, to gently open the petals of a poppy where some belated bee, in his task of carrying pollen from if the flower for the day; the bee's smothered cry had reached his sensitive ear, and very tenderly he sets the little captive free, watching its glad fight in the bright sunlight. The only secret of success that he claim said: "I when apon introduction one nature," he rather indignamtly replied: "No, sir : I only direct some of her forces."
My brother has opened broad fields for development
and made earth richer. May his life be a continued inHe says : "I I shall be content if because of me there shall be better fruits and fairer flowers.'

## Fruit-growing in Manitoba.

The following is a synopsis of the address delivered by Mr. A. P. Stevenson, of Nelson, at the Farmers' in stitute meetings recently held throughout Manitoba:
Mr. Stevenson first doalt with currants, because they ere usually the first fruit planted, and the easiest grass and weeds are allowed to grow, and the pruning cultivation and manuring are neglected. The following prints need strict attention in the cultivation of cur First, planting : They should be handy to the house usunlly put them in a little square patch, wich quires a great amount of labor in hoeing, or the plot becomes overgrown with weeds. By putting in long rows a horse and cultivator may be to heep them Second, pruning: The idea in pruning is to keen the old wood cut out, and encourage the new growth The right time to prune is in the spring, beforce the
leaves show, just when the buds begin to swell. In leaves show, just when the buds begin oo swell. In pruning, cut the last year's growth about half way
lack. The old bark is black, the new an amber color. liack. The old bark is black, the new an amber color, After the bush is eight years old its usefulnoss is over, and it had hetter be dug out to give room to new stock. Nnother is moving from one place to another . When a in rson is moving from one place to another; it is often
the custom to cut a favorite bush in two, digking out half the bush-but this is a mistake. In such in ase
the proper thing to do is to take a cutting. This will do, best in the end. The bushes well cultivatel, prined and manured will ensure good fruit. The varinties most suited to our climate are: In red currants, the North Whar and stewart's Seedling; in white yarletles, the rants. Lee's lrolific.「owning, Industry, Houghton's Soedling, and many others, the latter was found most satisfactory. To bo well cultivatad, and manured about a"ery other year. utting. Red raspberries should be planted in a row, the anes aliout two fert apart in the row when set out, und the rows about 5 ft . apart. The cancs show d be
ullowed to meet in the row, but not cross, the intervinint space being well cultivated with a plow to kill
the suckers. (arr, must be taken when planting the roots to cut the cane oll; the roots are perennial, but
the cans are anmul. The, most suitable varietios are
the Turner and Iouden. The fruit of the former is
$\qquad$
$\qquad$
$\qquad$ West, where thoronghly whemed. Attention must bo kiven to the soil, location and protection. The erouad
intended for the plants should the in roots the provious plants are set out in the sprring in straipht rows. Holes deep enough can the made with tho hands. These holes
must mot be too doep, or the rain will wash
vere the crown of the plants and smother them. The runners mut have assistanco in striking roo
next y year's crop depends on these new plant
 plants with clean straw, but not too dcooly y in the
 the frutt, which otherwiso would be damagemed with sund. Washing spolis the favor to ac certain extent.
The varieties most suitane are Beder wood and
Lop ; the pertect forerinu sorts are recommonded.
Tlum Treeet -The trees trem the temmended.
sto to our cimate ; a hardier variety is noeted. Thid has been sacured in the Improved American pium, variety of the wild plum. In order to troduce a hardy
type, the best varetetes of wild plum were seoured and cutivated, until wo have at present about all varieties plum. The truit is large, the skin m sels Ilike that of
 tringent: Another variety is the wejant, a free-stone
 Ting to bear, manure the surrounding land, but great rare must be taten that tho manure does not como in

Apples-- Perhaps the most discouraging of all fruits uring $n$ or


 $\qquad$
$\qquad$
 trot, and aimost the same height. The Transeundent io good apple. It has a large fruit, of good color Standard Apples.-Theso
trom the Iowa Experimental Farm. speaker has about 500 rrese in cultivation, conliposed of atout $\theta$ variotes, and about 40 bearing fruit., Somo
of the varieties most suitalale are Blush Calvin, Charl-

 ter. Often there comos an extra severo winter, an
euts of trees that have hitherto stood all tests.

 in oxpanding ruptures the cells. The theave not connoc
tion on this side between the roots and branches, the tion on this gide ob wen the roots and branches, the
vitanty of the tree is weakened, and it funuly dies.
$A$

 tit about ine midalle of May. Another point to pay Stention to tis when planting the tress, to lean them
somomhat towards the south-west.
This anfordd some
 ing trees
protereed

Cherries.-The sorts from Ontario and United States









## ${ }^{\text {Uion}}$ Another point to which the speraker wished to draw






The Forestry Building at the Lewis and Clark
 with tree nails and bly, old-fashioned wood wou

 roof-supporting pillars are 6 feet in diameter and
18 feet high. The roor and upper parto of the wnils



## Tastefal Farm Homes.

While fine houses and tasteful surroundings do not, in themselves, constitute ideal homes, they
certainly have an elevaling and refining influence and in combination with the true nobility of character that is the outgrowth of unselfishness, such sulroundings are helpful in the best sense to
those whose lives are lived on that most health ful of places, the farm. It is, perhaps, safe to say that in no country in the world are found more substantial, comfortable and commodious farm dwellings and barns than in Canada.
It is a genuine pleasure at this season to trive through many sections of this country, noting the prosperous appearance of the well-built homesteads and well-kept farms, and one cannot but feel that, in this regard, our people have "a goodly
heritage.". But while most of the farmhouses heritage. But while most of the farmhouse pearance, it must be admitted that many kav been indifierently planned from the standpoint of convenience and economy of time, labor and heat
ing, and, owing to the scarcity of help and fuel on the farm, many of them need to be improved in their internal arrangement to bring them up to the requirements of the times. The is not, to the average farmer, an inviting house as it involves considerable temporary in convenience and expense, but those who have made the venture will, as a rule, testify that the sidered improvemients is well worth what it costs. Certainly no class of people are bette entitled to comfortable homes than the toilers of the farri, and those who can afiord it without the possibility of making needed improvemider and should set about their accomplishment at the earliest favorable opportunity. There is no valid reason why well-to-do farmers should no have the convenience of a water supply on tal provides the necessary power at moderate expense where water cannot be had by gravitation, and with an elevated tank in the barn or yard this convenience. The removal and replacine a great titions in the house, in ordor to make a more
suitable arrangement of roons, though it may create considerable disturbance for a few weeks is quite practicable, not too expensive, and may
add greatly to the cornfort of the family and the saving of time and trouble to those having chares of the housework. The same is true of many of the basement stables seen in one's travels, lack feeding being common defects, and such as might well be remedied at a moderate expense, by enlarging the windows, placing additional ones
where needed, and hanging part of them on hinges so that they may be lowered at top to admit air without exposing the animals to uncomfortable drafts. Special attention needs to ment walls are being built ment walls are being built of concrete, as while it is no great undertaking to make a hole through The proposition
convenience and appearance has, in many in stances, been sadly overlooked, the bains being often nearly in front of the house, instead of in view that would be a pieasure and an inspira tion. Where the buildings are substantial and must be endured, but may be mitigated ted, and siderable extent by the planting of evergreunwhich serve at once as a screen and a shelter It is a pleasure to note the increasing attenfarmhonang. The the lawns and front yards of adds , meatly to the attractiveness of country life,
and
wid little short of a duly devolving on farmers, understood. The planting of trees by so we well
sides and line fences has added immensely to the sides and line fences has added immensely to the
beauty of the country in many sections, and mav the improved upon by planting groups in out-of
theway corners and in places that are of litile
W. Won other purposes. Whe clearine of trom the roadsides, and hevelinge the ground so
 ansideration of these intwasted. and are such as IF YOU HAVE A FARM FOR SALE OR WANT A SITUATION, PUT AN ADVERTISFMENT UNDER TIIE HEADING OF ". WANT AND
FOR SALE'? IN THE "SARMER'S ADVO-
CATE":

## Poultry.

## Buff Orpington Ducks

der: on, Oakleigh, Australia, comes as orgen An- to those of us who have always supposed that the Pekin was the oniy duck for utility purposes end of June (one must bear in mind that the Australian seasons are the reverse of ours), and layed up to the middle of January, when they commenced to mound. They averaged $164 \frac{1}{2}$ eggs Pekins and Funners. During the great heat January a large number of young Runners died in this locality. I lost everyone of my young stock, although I was careiul both as to feeding over 700 young Runners betwcen them, ind had died. My neighbors and friends have lost all theirs. My Buff ducklings, however, stood the heat, hot one showed the least indisposition o eight weeks. The Bufis have evidently up vitality than the Runners, and appear to be more suitable for keeping in the changeable Australian climate. As to layinge they are not behind Runful capacity for putting on flesh and Runners as well as Bufis, but the latter ap pear capable to fill, Lrofitably to their owner, the The Buff has an adventore ore the duck which our Australian friend does not the white The white duck, always dabbling around any litt puddle it can find. is usually dirty. It will present a pleasing appearance only when care-
fully looked after. The Buff does not show the dirt, and under ordinary circumstantes is wome tractive to look at.
profit in raising ducks. is made by some becau they notice that a duck' eats much more than a a full-grown chicken enough to pay for the extre feed, but a duckling can be made to weigh from five to six pounds as quickly as a chick can be
made to weigh two. In most cities there is a great demand for these "green ducks," as they city to ship without too much expense. he will and the price raid for such suph of young ducks. them a source of profit if sold al the makes No stream or natural pond is nevded for raisand the ducklings vigorous when hatched fertile good wide trough is sufficient. Duc lings t is more proftable to raise them without growing. hey put on flesh faster, and are more plump and

## The Feeding of Chickens

ing for information as to the coucs of us, ask chickens, and post-mortem examinations have, is no freat difficulty in the fecding loss. There and there is no reason at all why errors in ths, direction should occur. Nevertheless, Several those of experience, constantly find much trouble a the feeding of their birds. Appended are just ommonly fall in chicken-feeding. 1. Giving too much soft food and not suffi2. Giving foods of a too-concontrated char 3. Not supplying a sufficient quantity of ani Chickens do best when fed a little at a time plenty of means for exercise they may he given should not be placed before them, as the surplus amount is found to become fouled and tainted wasted, hut is calculated to give rise to serious hickens may martake of it in such a condition the tance of providing a constant supply of fresh,
clean water. No more common cause 5 he in vessels that have not been refilled for it hans two or three days, or in a stagnant pool. "us sumi


## Raising Incubator Chicks.

$\qquad$ thirty-nix hours after they were hatched, operating it a let in more air after they were all dry a in the time, I heated up my brooder to $95^{\circ}$ putting a littl chall on the floor, and adding a saucer with inverted or peas answers the purpose admirably; clean it per fectly. Make a hole with a small nail in the side, or ${ }^{\frac{1}{4} \text { of an inch from the opening; fill it with clean }}$ water, from which the chill has been taken : place a saucer over the top, and invert. In this way you will into, become wet or chilled, and the saucer will have water in even with the hole in the side of cad as long as it contains any
Remove chicks from incubator to brooder, being careful to cover them in transit, that no cold air may chill them, bearing in mind that every fifteen chicks adds one degree to heat of brooder. Do not put too many chicks in one brooder; fifty is plenty for one
rated to hold one hundred. Fewer in number they thrive better. As soon as chicks are in the brooder, I give a good feed of grit, chick size. They are then ready to digest their food. In a couple of hours feed them a smali quantity or bread and egg, in the proporones from incubator will do) toled eggs (the infertile bread-chop or grind shells and sll with the stail Feed every two hours, being careful wot to much at a time. In two days add a little grain. The lated oatmeal, 15 parts ; millat seed, 25 parts; granu cracked corn, 10 parts. broken rice, 2 parts ; rape meed, 1 part, and grit (chicken size), 10 partss
Scatter sparingly, and let chickens work for it Start with one feed a day, and as they become accus the meantime, let more air into your brooder, by rais ing the lid a little during the day, if weather is favorable, and as soon as they seem strong enough let the chicks out in a small yard made of boards or wir come accustomed to going in and out, until they be find that giving them a little new milk once a makes them grow much more rapidly. One must use heir own judgment as to the heat. A little too much heat, but they can't remedy the cold. When you of the chicks getting out from under the hover, lessen the
heat; when they crowd together under it, give more

When slx or seven weeks old, remoive from brooder hover, if weather seoms a little cool, by tacking Cannel around a square board, slitting at intervals to allow the chicks to pass in and out. Place this high enough above the fioor to allow the chicks plenty of room, an as they outgrow it it can be removed. It you consider
the chick food too expensive, after they are four weeks the chick food too expensive, after they are four weeks
old, wheat and cracked corn (the latter sparingly) ca be used for one or two feeds, leaving out the bread and egg. By the time they leave the brooder, lessen the
feeds to three times daily, and other grains may feeds to three times daily, and other grains may be sub
stituted. If you wish to raise layers, I would by all means
feed dry grains, as by so doing you have a much hordier feed dry grains, as by so doing you have a much hardier
pullet ; if for broilers, a mash of corn meal, bran and otmeal will give best results, for two feeds a day.
We had arge per cont of chicks, while othere and them by the dozens; and our pullets ralsed on dry feed were laying when a little over five months old. Our
aim was to feed too little rather than too much, and aim was to feed too litlle rather than too much, and
as soon as chicks were old enough we gave them free range.

## Care of Sitting Hens.

Assuming that the hens when set were confined to the nests, and they should be unless it is certain tha there is practically no doubt that they can be set any where, and from the first be trusted to come of to feed and go right back of their own accord), they should four hours after being set, and if they do not come of their own accord should be taken off, for if they do not leave the nest and void their excrement now, they sponding time on the following day, and during th first days of incubation the change of conditions and food often produce a disturbance of the bowels, and for awhile some hens will be loose and unable to retain the excrement as long as they will later. Hence, even if a
hen is not hungry, and eats littie or nothing, it is imortant to have her off the nest daily at first.
Hens that are handled wilhout any trouble may Hens that are handled wilhout any trouble may be
let off the nests at any time convenient for the attend
ant. with hens that are inclined to be shy, the easiest
way to break them to return promptly to the nest in a
strange place is to let them off just long enough before dark to give them time to feed. They will often re carly in the nest quietly at this time, when if let oll handled roughly give the business ap altogether dusk hens that do not go back of their awn accord ate more easily caught, and settle down quietly when reurned to the nest.
Having returned to her nest of her own accord, convenient for the attendant, and leave it at any time thing wrong with the hen or the nest, will generally go back within fifteen or twenty minutes, which is about as long as it is safe to have the eggs uncovered in cold or very cool weather. On bright warm days, hens may eggs being any the worse for it. Indced without the rule is that the colder-blooded hens stick closest to the nests, while the hot-blooded ones give so much heat to their eggs that the nest gets uncomfortably warm, and to prompt them to let their eggs cool longer than the \%oprompt them to let their eggs cool longer than the When many sitters are in the same room it migh they came from different flocks. There are several ways If the hens were all set at the same time, and all or any considerable part of them, are so shy that it is advisable to let them of late in the day, the attendant can watch them while off, and interfere if they go to Hghting. If he does not wish to watch them daily he ferent times in pairs or small squads, leaving the more If, as is the case on most small plants, the hens se in a pen are set a few at a time, they are broken to return to the nest in the order in which they are set,
and when new hens are set the others can be released at intervals earlier in the day.
On a larger scale of operations, if several rooms or On a larger scale of operations, if several rooms or
pens are required for sitters, they can be prepared at the same time, a few hens set in each, then a fow
more, and so on until filled. This admits of gradually breaking in a large number of sitters to the desired routine without having to watch them when off the ests. Thus it is possible to establish a routine of reof caring for them at he goes about his other work yet take so little time for it that he never feels it as a burden ; in fact, hardly notices

Price of Pure-bred Poultry.
The question comes before the breeders of purebred fowl, "Why should I ask a price that is
above that of common stock?" Someone might say, because I paid high, therefore I should charge high. Añother may say, because other breeders put on high prices, thercfore I should do the same. These arguments are all right as far as they go, but the main question is, are stock? I shall endeavor to give a few reasons in the Take, for instance, the Barred Plymouth Rock breed. How long has it taken to get that breed of careful and scientific breeding to get the $13,-\mathrm{P}$.
Rock an established breed nor does the end there. The careful breeding has to be continued year after year to acquire and maintain the ideal type. Can this extra work be done for years of No lime is too precious to devote years of extra labor for nothing.
There is another strong reason.
pure-bred fowl will, in ninc cases out of ten, breed true to type, whereas you do not know what to expect from a mongrel. Is it, therefore, geny you are going to get from your fowls? The breeder can have the kind of chicks he wants if he has suffecient breeding in the parents. When speaking of pure-bred fowl, don't mistake between the pure-bred fowl in name only
and the one that has breeding in reality, for there is a vast difference
If the price on pure stock and the eggs of the
same were to come down same were to come down on a level with the
common run, the intercst in raising pure-bred stock would abate also, because the extra work and extra quality demands the extra price. It goes without saying, that, to keep the price of well-bred fowl up, it behooves the breeder to send

## Stpiary.

## Clipping Queens.

When natural swarming is practiced-that is when the bees are allowed to swarm naturally wenty or twenty-five hens are sitting in the same place,


Prince Arthur and Charlie.
Four-year-old Clydesdale geidings, First for heavy draft team any brced, first for team
sired by rexitered Ciydeprale stallion, frst and third respectively, for single


When nests are several tiers high, it becomes necessary some extent while off, and return them to the nests after a suffcient time off has been given them.
I have always had better hatches, on the whole, when I kept nests closed, except when the hens were off for food, etc. By doing so, one is sure that no nest hens going on without his knowledge. Making this the
rule insures against the most common causes of spoiled rule insures against the most common causes of spoited
eggs. It is one of the litte things that it pays to do, and the rule should be broken only in emergencies. -
or otherwise maa nipulating them-
there is nothing which will give
more satisfaction ${ }_{\text {more }}^{\text {motisfaction }}$ queens clipped. It
It
ised to be the fashused to be the fash-
ion to let the queen ion to let the queen hore her wings and for the bcekeeper
follow the swarm
or try to do so, or try to do so,
wherever it might go-often into the
top of the highest tree in sight. If
the swarm sense enough to cluster on a branch
it is not so bad,
as they can then be cut or shaken down With little or no
injury to the tree Jut in the writer's
before experience,
he practiced
bingre
clifping, about three
quarters of the
swarms would make for the evergreens
and cluster on about they could only be
removed by cutting the tree of below queen could be which is not just the
easiest thing in the easiest thing in the
world to do under world to do under
the circumstances. There is an casier, quicker and bptter way of doing her wive on the ground and casy to get at, and fix her so she cannot follow the swarm. This
is done by clipping one of her wings so that she is done by clipping one of her winks so that she
cannot fly, and should tee periormed in the spring commences. There are sure the swarming season but one which is largely used and gives eenera
satisfaction is to pich up the queen by the wings satisfaction is to pich up the queen by the wing
with the right hand, first, oi course, having opened your, hive and found the queen. Allow
her to catch hold of the left thumb or forefinger
with her feet, and then, holding her by two or of one of the large wings with a pair of sharp en cannot fly, bu will be found crawling on the ground in front o her hive. Have a little wire cloth cage ready With one end open. Hold the open end over the the open erd, and set the queen in a safe place qut of the sun. Lift the hive which the swarm came from to a new stand, and set an empty hive ih the air will soon miss its queen, and, returning home to look for her, will run into the new hive Which is where their home was when they left it. When they are going in well, allow the queen to ping queens care must be taken not to injure them. It is well for a beginner to practice on drones until he learns how to Fick them up and certain she is Never clip a queen unless you are queen is worse than useloss - she is enisance

## Events of the World.

## Canadian

A rich discovery of gold-bearing quartz has beem
Hon. David McCurdy, for 24 years member
Nova Scotia Legislative Assembly, died June or the pneumomia, at Baddeck, N.S. He was 95 years of age.

Mrs. Leonidas Hubbard, wife of the explorer perished in the interior of Labrador last year, has vill at Halifax, on her way to Sillisport, where she point where her husband gave up his life

This is the last year in which the military camp will
be held at Niagara, where the 400 acres set apart for the purpose are entirely inadequate. The next camp where the Government has reserved 25,006 acres as a military training ground.

## British and Foreign

The torpedo mines carried by the sunken Russian
arships are now coming afloat, and rendering nuvigaion vory dangerous in the Sea of Japan. Lieut. Peary will make another attempt to reach the North on the Steamer Roosevelt on July 4 th

Russia has agreed to Washington as the point which nego
de Danish lmperial family has refused the crow wegian tricolor has in all places been hoisted instead of the union flag.
hose light will be visible for 80 victory, a lighthou the whole scene of battle, will be erected on Okino Island, Japan

Germany has addresed posing an international a note to the Powers, pr question, qualifying the step by the on the Morocc has been authorized by Morocco. Germany's action in
the matter is looked upon as the beginnieg of a posthe matter is looked
sible European crisis.

Theodore P. Delyannis, the popular Premier of Greece, was assassimated recently while on the way
the Chamber of Deputies at Athens. The assassin, professional gambler, stated that he did the deed in
revenge for the Tremier's order that all the gambling

Fiela Nores.
On June 1.5th we received a plant of winter
which mansured tw." ievt nine inche sromi root to to
The plant was grown in south central Manitototat. The Argentine exporters of live stock to Grea
Britain, An order to Britain, in order to avoid the prohibition of the im
portation of live animals, now send 1,500 live shee weekly to Antwerp, where they are slaughtered, and the
fresh mutton is sent across to England. The enhanced rice received for the Argentine-Antwerp mutton enlcoul. One cuuse of the dearness of One cause of the dearness of
at the present time
tralinn the compa rallian apples. Last year nearly foumancity of Aul
Lat and brought to the Lratitish market, but this year's akgre yate is not expected to reach over 400, trnc. cases. This
arobably explains why from four pence to sis , ence probably explains why from four pence to
pound is being asked for Australian apples.

## Have You a Camera?

In view of the popularity attending those in camera competition, or rather six competitions, as follows
A-Photographs of farm homes, showing house, grounds, trees, etc.
B-Photogra, trees, etc.
-Photographs of buildings and live stock or any farming operations, such as seeding, plowing, harvesting, threshing, etc., in which people or animals are at work. (Last year's photoraphs accepted.)
C-Photographs
-Photographs of intcrior views of rooms in houses, showing arrangement of furniture, kitchen appliances, et
D-Rural school and grounds, with group of pupils. In this section we particularly desire photos of schools where grounds and surround ings are well kept.
E-Photographs of cheese factories or cream ries, with surroundings.
-Photographs of gardens or orchard
First prize $\$ 3.00$
$\$ 2.00$
RULES FOR COMPETITORS.

All photographs must be mounted, and prefer ence will be given to those not smaller than 4 x inches in size.
THEY MUST BE CLEAR AND DISTINCT In making the awards considenation will be subjects,and to the suitability of the photograph for illustration purposes.
They must reach the office of the "Farmer's Advocate and Home Magazine," Winnipeg, Man. ot later than July 31st, 1905.
The name of the competitor, with P. O, adcress, must be marked on the back of eac photo, as well as the name and location of the riew depicted.
Any competitor may send in more than one photo, but may not receive prizes in more than two sections, nor more than one prize in any All phot
become thographs entered for competition shal cate and Home Magazine
No photograph from which any engraving has been made is eligible for competition
obtaining beautiful views par excellence kinds for which our prizes are offered various Province in Canada and the adjoining States should be represented in this friendly competi tion.
Western Manitoba's Big Fair, Brandon
This ween chosen for the first four days in August. prize-lists alsout a week earlier than last year. Th obtained by dropping a post card to the manager here have been several changes made in the prize-list valuable prizes have been offered, which are somewhat out of the ordinary: for instance: The Chatham Mfg. ons; a Canton plow is also being donated; the CampMifg. Co. are also donating a cutter ; the Armstrong Crg. Co. ure also donating a cutter ; the Massey-Harris are donating a plow; Frost \& Wood are donating a ing an incubator: Mr. Carruthers, the well-known hide "nd fur merchant, is donating two Galloway roles, and
the "Farmer's Advocate" are arain needal in the stock-judging competition. $I_{n}$ fact, the number of special awards that are being donated this
year is too long a list for us to mention in this isue They are valuable, useful and practical prizes of all
kinds, and shoull brine out stronr competition. fair will the the collowion of native animat this years
 Busides the asual malform attractions and speeding
wents, the dirertors on or a magniticent tiveworke display, in which liting ph


## Morse Show at Winniper

4th and 15th, was visited by all the drawbacks inci dent to the incubation of a new institution. Hain compelled a postponement for two days, so that it was
Saturday ni tht before the final events came off. From the standpoint of a display of horsellesh, however, th
show was a splendid success, nearly ull of the sity classes being well filled, and many of them exceptionally iarge. Interest was well divided amon s the carriage roadster and sadale types, and it was the unanimou cellent collection of horses had ever before been brout together in the West. In the harness classes, Hack neys and Hackney grades were quite prominent; those
belonging to J. A. Mitchell, Kildonan; Baker \& McLaughlin, Winnipeg; Dr. Henderson, Carberry: Mrs. Scott, Winnipeg, and W. M. Gibsoni, Winnipeg, wer particularly admired. In the grand sweepstakes fo
the best horse in the show (Osler, Hammond and Nan Lon cup), Dr. Henderson's Hackney stallion, Mars sters, Dr. Hinman's (Winnipery) So Gay was the road outstanding winner, while in stulde horses, honors wer pretty evenly divided between K. A. Price, of Moosomin Miss Cameron, Winnipeg, and 11. M. E. Wans, Winni
peg. A gplendid string, members of which appeared is man, of the Hudson's Bay Co. Polo ponies from (iil lingham, Alta., and Qu'Appelle, Assa., were exception
alty plentiful, and all were well manner draft horses were not numerous, the honors going til ew . Mitchel, on four of his excellent mares that hav Alex. Galbraith, of Janes:ille. Wis., and Clem All,way,
of Montreal. Given favorable weather conditions, a horse show in West, as it would be the means of directimg attention lassed individuals, and would keep the advantages

## Prairie Home Sale

shorthorns and Ayrshires was held by Hon. Thos irennway, at Crystal City. The attendance at the in the new pavilion on the farm could scarcely be imcatalogued, but eleven of these were wot sold. Sis head averaged $\$ 97.50$, and the twenty-three females $\$ 12+.35$. Thly three Ayrshires were sold, at an average of $\$ 75.53$ possible exception of an odd one or two. T. C. Nor-
ris, of Griswold wielded ris, of Griswold, wielded the hammer, in his usual ahth
style. The rollowing is a list of purchasers and the Starling, A. C. McCollum, Roland, \$145; Crystal Robt. Lawson, Darlingford, $\$ 120$; Beauty Spot, Stewart, Larivere, $\$ 160$; Red Beauty, C. Crowton,
Ausk, N.D., $\$ 85$; Regalia, J. A. Young. Cypross \$150; Laura, J. A A Young, A. Young, Cypross Riser, May Blossom, T, T.
II. Stone, Clearwater, $\$ 125$ : Cily Maid, Mound, $\$ 100$; Scottish Queen of Prairie Home, A.
McCollum, $\$ 145$; Minnie, T. Stone, 875 ; Lady Piell of

 Vatentine, W. B. Cornish, Gerenway, S175: Roan Quatw ypress River, $\$ 85$; Jessie of the Ring, J. I Iind


Plowing Match at Bird's Hill

With the Turming of the Cycle. Straits of corea the faint Japanese victory in the Strants of Corea, the faint voice again begins to pipe the periodical alarm as to the Yellow Peril. This Berlin, and Emperor William at least is accustumed and speak in no subdued tone of voice. The reason the pipe waxes faint is probably that all the rest of the in. practically, is up in arms against the suggesle men of the Chrysanthemum land, at one in disap probation of the big Russian bear which has been lord g so long, and which, so far as the autocracy is ne wholo world Togo and his clover p to the top of the pedestal um arms are hoisted white light" has not begun to wher, as yet The Yellow Peril is laughed at as something beyond the pounds of possibility, and yet may not the great white warld be wise in taking time to consider ? "Fore-
warned is forearmed." There is possibly more sent han nonsense in the recent comment made by the rgus on the situation culed, even if this mirchty $\mathbf{s}$ words need not be rid a 'scourge' to the "elect', of the continents of Europe and America. Asia has taught the rest of the world a good deal in its time; its teaching not having
been generally appreciated, its lessons may possibly be been generally appreciated, its lessons may possibly be tect of the universe, who, in His human building material, probably ignores colors and social distinctions." ing materials of all descriptiuns. Moreover, she has only walting for direction. Already some of this surjlus has begun to flow into the building of warships, a rather significant fact, in view of the general opinion that, beyond an occasional Boxer uprising, China can still. Long ago her capacity for invention seemed $t$ bocome worn out; yet the Chinese, as well as the Japanese, are recognized as possessing a marvellous genius for copying. "Alriost universally," as a mis marked, " the yellow man is a mechanic. He may not invent, but he can duplicate what you have invented.' Now, the Japanese have " learned it all," torpedo, modern warship, subma-ine, wireless telegraphy, the heliograph, all that western science has evolved after
centuries of study and experiment. Some of her chief officers, Oyama for instance, have spent years in Europe studying European military tactics. Given the direction of China's miltions, China's vast resources, what might she not accomplish
Great Britain has admittedly, owing to the Anglo-
Japanese allance, much present reason for gratification at the success of the Japanese navy. At the same at the success of the Japanese navy. At the same
time her necessity for keeping on the right side of the Japanese has been materially increased. Henceforth Great Britain, as all other heretofore self-styled "supe the yellow people, and to sue where she has been position to disregard, if it so suited. In itsell this no calamity. Neither is the fact that the territory grabbing policy of the European powers in regard to aggrandizement has been too characteristic of nation and individuals whose energies might have been better directed-it would be interesting just here to know in to what stnte of mind Lord Curzon in India. for in-
stance, has been thrown by the present juncture, It is stance, has been thrown by the present juncture, It is
held by many that othervise ilttle difference will b
made in the relations between the East and the West that Japan will now be more careful than ever of emcombined Europe must form a formidable foe ; and that she will be increasedly desirous of maintaining her contige which Great Britain, understanding the added pres Granted that all this is Immediately true, it is also true that the Oriental is an individual who wears Already his reverence of the white man on his sleeve. beon upset, and he is chuckling, if a solemn-faced Oriental can chuckle, over the electric shock which the demure little soldiers have given the swollen-headed
world. The Oriental works quietly all probability, many cycles still to be wound off before the mundane sphere grows cold. Let China develop as rapidly as has Japan during the past ten years, let modern science and Japanese discipline join hand with
the not-yet exorcised Chinese savagery, lat the united east reach out to Persia, Thibet, Afghanistan and all the Mohammedan and Buddhist hordes, which might be only too glad to get a crack at the long domination of the white man, and United Europe and America
might well tremble. The Yellow Peril is not mediate danger, but it would be a far-fetched assertion to say that it might not be a possibility of the future. As was recently pointed out by one well versed in the condition of the Celestial Empire, the greatest obstacle -e at the present time is the all but universal use of opium, with its deadening efects upon their intellect and energy, but who can say that even opium eating is an
ineradicable evil, even in China, were she once to come ineradicable evil, even in China, were she once to come drous skill in all that partains to ganitation, hy hien

The Great Simplon Tunnel.
Possibly one of the greatest engineering feats modern times has been the construction of the great funnel through simpion Mountain, Switzertand. About mous passage, the longest railway tunnel in the world was begun, one party of warkmen starting on the Swiss and the other on the Italian side of 'the mountain. Month after month passed by, and as the workmen penetrated the depths of the earth with 7,000 feet of earth and rock above them, they were often compelled to stop work by reason of gatherings of foul gas
and torrents of hot water which were encountered. In March of this year the work was completed, and so accurately had the engineers planned the work that the two parties met exactly, and when the stone wall beween them was thrown down a continuous tunnel $12 \downarrow$ for the traffic of the world. It consists of two single fine tunnels, 50 feet apart from axis to axis, and a grade rises from each end to the middle. As may be imagined, the work was not accomplished without loss rum through the passage two men were nsphyxiated. All diffculties have, however, been overcome, and the tunnel was formally opened recently with great ceremony. rains from the Swiss and Itallan ends meeting in the point marked with a cross in the accompanying illustration shows the entrance of the tunnel.

## If You Want Anything

## ND DON'T RNOW WHERE TO COT

ADVFIRTISEMMENT IN THE ./ WANT AND FO बALE '. COLUMN OF THE ". FARMER'S AD VOCATE AND HOME MAGAZINE " WILL GET TT FOR YOU. THW FARMER'S ADVOOATT: INT FOMFE MACAZINF.. WINNTPFIG. MAN.

Award to Spring Parlc Nurserios. ors in the case at last been reached by the arbitrapring Park Nurseries, Brandon, and the C. P. R. This r dame of a claim by Mr. Wallace of $\leqslant 30,000$ ing of the Kirkella branch of the of his grounds. Before going into arbitration the Railway Co. olfered compensation to the extent of $\$ 5$. The but the arbitrators gave an a ward of $\$ 4,987.40$ the board, T D. Cumberla signed by two menibers of Mr. Ingram refusing to affix his cignatura Marcourt Nace will have to pay the costs of the arridtration. Which

Amendment to Inspections Act.

## An Act has been introduced into the Federal $\mathrm{Pa}_{\text {a }}$

 .. 2. In casection two, which reads as follows:2ateness of harvesting or climati conditions prevent the procuring of proper and repre sentative samples of any quantity of grain of the cro of that year in time for the purposes of inspection there Standards Board convened for the purpose of this sach tion, the board at such meoring purpose of this sac mittee, of such number of its members as it a point, to meet at a later date and to select such further samples so procured mayples as the character of the grades and samples so solected by ; and the commercial e deemed, for all purposes of inspection amd grading

Investigations at Central Experiment Station.

Among the inveetigations conducted in the Labora tory at the Experimental Farm, Ottawa, during the Examination the following
aminallon a proces patented in Donmark fo the preservation of milk. Dr. Horch, of Copenhagen was the patenteo, and it was claimed that by putting nation length of time Sh an indelite were recelved at the Experimental Ferm, in this way the milk was sweet and form able features such as favor, the in success of the process.
xamination of certain instruments recently inventel or rapldly ascertalning the amount of moisture in bids the rent law passed by the British Government for tain per cont. of of butter containing over a cer that the exporters should thave some it means of deternininthe quickly and efficlently the amount of woisture in struments examined were found to be fairly efficient uscd properly, while others were totally useless An invesugation of supposed changes in the com position of the fat in cheese when it is hept in cold
storage.-This investigation wha undertaken storage.-This investigation was undertaken owing to
the fact that it was alleged in Eagland recently that some Canadian cheese was adulterated with foreign fut, and when an analysis showed that such was not the case, the British merchant who had purchased the cheuse Composition of the cheese while they were beingy kept in cold storage. The investigation at the bearm riover

The Great Simplon Tunnel.


The spot marked with a cross shows the entrance of the tunnel.
place in the composition of the fat in cheesk
while leing hept in cold storape amination of a process for masing I, utter
recently explaited recently exploited in the Vnited States. It
was claimed that by addiny certuin them-
icals to the crent icals to the cram more butter of of hetm-
quality could be menufacturd than 1,3 the ordinary process of buttermaking. Thw
rrocess proved to he of no use whatever.
and, according to Prof. Shutt, was anouh sample of the faker kame so much in cvi-
dones in the Vnitad States. of a few days from the latoratory, convint wheat of the Northwest, with dis, ussion
thereon. As is gencrally known, the wheat
grown in the Northwest is graded into difgrown in the Northwest is graded into dif-
ferint classes, according, to quality, by a
(Government offcial in Wimmin, and so soll according to classification. The prrimipal
krades of wheat are No. 1 hird, No.
northern, No. 2 northern, No. 3 merthern. $-\square=5$ $-\operatorname{cov}$
was cuet warranted by the dilleronce in mill-

## 958

THE FARMER'S ADVOCATE
FOUNDED 1866
Organization for Purchasing Supplies.
 turn.
It is clear to any business man that they are not. Anyone knows the difference between buying retail and
buying wholesale. By the present system the farmers support an army of agents, and pay large profits to merchants as well as to manufacturers. We may divide
that twenty millions into two parts: One the real, necessary costs of manufacture, plus a reasonable profit, will amount to $\$ 12,000,000$ at most ; the other part, $\$ 8,000,000$, is now paid for costs of selling, risks
of business due to present conditions of industry that co-operation would eliminate, and profits that are greater than fs fair to the farmers, who are the chief wealth-
producers. That $\$ 8,000,000$ can be saved by a com plete organization of the farmers, according to the princlples already shown to be absolutely proven. That would mean $\$ 8,000,000$ more yearly on the bank ac-
counts of farmers, or that nuch applied to reduction of counts of farmers, or that nuch applied to reductlo
farnı mortgages, or as extra capital on the farms. If anyone doubts the possibility of such a large sa ing, estimated at $40 \%$ of the amount now expended, let
him look at the evidences. At present, as business men know, the usual or average agent's commission is no saved by buying co-operatively. Other expenses of sellIng, such as advertising, travellers or general agents,
offco stafl necessary to present system, amount at least to $10 \%$ of the total. "Risks of capital," and profit easily amount to the remaining 5\%. Recollect the great wealth of the Masseys, the McCormicks, and others, gathered as profits on dealings with farmers. Recollect
the dividends paid by the Farmers' Binder Twine Co. the dividends paid by the Farmers' Binder Twine Co.,
amounting-as I believe they have boasted-to $406 \%$ on amounting-as I believe they have boasted-to $400 \%$ on
invested capital since the beginning, and to $100 \%$ in
one year's dividend ! if concern which exists in the one year's dividend ! if a concern which exists in the
farmers' interest and wars against monopoly and the robber trusts will take such profits out of the farmers
what can we expect of the trusts and private enter what can we expect of the trusts and private enter
prises? It is clear that the figurcs given are moder
ute. And the remedy? Co-operation-the kind of co-
operation these artcles have been advocating-is the remody. That is, all the furmers uniting in one vast
orgnizization to buy what they nced from those who
manufacture such articles. Notice: It is neither necessnry nor advisable for such a body of united farmers o
any number of them to manufucture anything, but it is
(...th ndisal) and necessnyy for themy 1.wh andisable and necessary for them to buy thus co-
operatively. The plant already manufacturing for he
farmers ic suficicnt for that purpose. It is quite farmers is sufficicnt for that purpose. It is quite
conough to bring the manufacturers to terms. And they
will come to the farmers' terms; but only when the farmers compel them, and that can be done only by
united action.



 Aned: Tho mithe obient of the association clearly de-




3. Emprover intereters to not troely in meggtintions
 tinds of machinory,
ot every member who remains inn intann cont inved toyalty

 tor membersar. wi. Arrangements should be provided liwn tedrat ing P. Profts of busins., it any, should bo privi oun


Things to Remember
TERRITORIAL FAIRS


Winuipeg Industrial …................................................... 18 and 20 to 28 W. A. A. A., Brandon ...................................... August 81 to August 5
Killarney

hanitoba fair dates (Dept. of agriouliture Elkhorn Carberry ….................................................................... 18 and 19 and 20
Westbourno
 Melita
Deloraine Cartwright
Pilot Moun Shoal Lake ........................................................... 20 and 21 Oak River …......................................................................................... 10 Carman
Morris
Crretal
 Nitanin

FALL FAIRS


## New York City Milk Supply.

The past ten years have shown wonderful advancements in the betterment of the milk supply frend human consumption. Five years ago the contents-the solids it contains-ond for all prac tical purposes this was estimated from the fat contents of the milk. This, however, did not satisfy the public, especially the medical profesIt was which is deeply interested in the subject. the maximum food value, but that it should reach the consumer in as sweet, pure and clean a condition as possible; or, in other words, that it should be fresh and clean. The cleanlixamination to determine the number (colonies they are called) of bacteria in a cubic centinetre of milk. A cubic centimetre is one-thir-
That the public at large is taking a greater interest in a pure-milk supply for large cities, is

Morden Mound …...................................................... 18 and 19 and 20 evidenced by publications on the subject appearthe New York City daily press. As the largest city on this continent it is interesting ta knes how the citizens of New York are supplicd with that very necessary article of diet, milk. The consumption in Greater New York every day is approximately $1,500,000$ quarts, besides the conty is used. It is distributed by 3,500 wagons and 11,500 stores. With the ever rapidly-inquantity is required each year-about $1,500,000$ quarts.
Of the $1,500,000$
quarts distributed in
Ne York every day, about 450,000 quarts are bottled of certified milk and 2,000 of inspected milk About $1,000,000$ quarts are sold from stores every day. Certified and inspected milk is produced County of direction of the Medical Society of the gent rules for the praduction on the farm strin ing to absolute cleanliness. An agent of the Society inspects the premises before a permit metal cap, bearing its name, with whicer a to seal the top of each, with which makes weekly bacteriological examinations of the milk to see that it does not con-
tain more colonies of the bacteria than are allowed by their rules-in case of certified milk Righ, inspected, 60,000 Health of New York City does not consider milh cubic centimetre. The minimum fat in inspected The certified milk sells at from $13+0$ ent.
thents a quart. Nearly all groceries and delicatessen dipped from forty-quart cans-and some sell of it. Thie usual price of bottled milk is little cents a quart, and of dipped milk five cents
quart, in summer, and six in quart, in summer, and six in winter. In thicklymilk," is sold as low as four cents a quart, dipped this is done as a "Yeader." The milk supply of Greater New York is of New York City ond from 400 to 450 miles New York, New Jersey, Pennsylvania, Connect cut and Massachusefts, and a small quantity comes from Canada at points adjoining this city limits, principally in the suburbs within the There are 1.223 dealers selling milk. usual in a business of such vast proportions is greater part $n$ the milk trade is in the hands
of " leaders" in this burtions, the livers close to 75,000 this business. One firm deMvers close to 75,000 bottles in a day in Greater
N Y. and another over 40,000 . There are als
"leadors" in "leaders" in the can trade, who deliver forty-
quart cans to the groceries and delicatessen
stores


100 of the leading dealers of New York. The and will not comply with the requirements of the price is usually two to two and one-half cents Health Board, an inspector camps on his trail. A
in summer, and from three to three and one-half visit is paid to the creamery which recuives his
cents per quart in winter. is about one-fifth less than the imperial. The freight and five cents a can for ferriage are de-
ducted from this price. New vork is an islond. ducted from this price. New Vork is an island.
The North River runs on the New Jersey side of it, and the East River on the other side. consequently the most of the milk is brought over on the ferries in iarge four-horse wagons; hence freight depends ${ }^{j}$ on the the distance from which the milk is shipp,w. If within a radius of 40 miles from the city, the freight per 40-quart can
is 23 cents, for 100 miles 26 cents, for 190 miles 28 cents, and for any distance beyond 190 miles

The milk supply of this city is made at 15000 farms, and is gathered at some 450 receiving
stations (or creameries as they aro called) which are scattered in different sections of the State and are usually owned by the dealers in the city. om, are run on express time contry to the old cusin specd the fastest passenger train. Some milk of that intended for bottle delivery is phit in cans to save freight, and is bottled in the city in the large plants of the dealers, The he evening, and continue to arrive until near wagons drawn up at the long platforms at which the milk is received, and crossing over the ferry with the empty cans and returning with the full road. Blocks of ice are placed on the cans and if any ice is left over on arrival the railroad people give it to the milkmen to place on or
around the cans in transporting them across the The milk supply is controlled by the Departwhich the chief official is the health commissioner, appointed by the mayor. The health com-
missioner is also president of the Board of missioner is also president of the Board of is divided has its local board of health, but the head office is in
fore consolidation.
The Board has thoroughly-equipperd lakoratories and a very large staff of eirployees. Ainong to inspect milk on its arrival in the city, at the groceries and delicatessens, and on wagons in
transportation across the city, or while being delivered to customers. They have power to ply with the lawn. Two of these inspectors are employed by the State Board of Agriculture, but
are paid by the city and are under its directions, as the jurisdiction of the health commissioner of One of the does not extend beyond its limits. is that the milk on arrival must not (xcsed $51^{\circ} \mathrm{F}$. temperature when exposed for sale in stores. When milk is at 50 F . the growth of bacteria is apidly. If the inspectors find the milk exceeds into the river or gutter. The use of preservatives is not permitted, arrd a constant warfare is waged against their use.
Formalin is that which is most often used by those who try to avoid the law. Formalin in pecially by children. The adding of gelatine to cream to thicken it is a favorite device. While it
The sale of skim milk is prohibited. Whit is known that the fatty substances of whole milk
are necessary for infants, there seems no good kim milk which could an article of cheaper than whole milk, should not be permitted to be
sold, except for fear that it might be palmed off skim milk to whole milk, is punishable by fine. The Health Department uses the i3absock t.st to determine if milk has been adulterated.
As I have said, the authority of the Board of Health extends over the milk only when and after r's Advocate "ity, but the reader that, to ensure a clean, pure milk, the beginning must be made at the farm. It is a deplorable but undeniable obiection to taking proper precautions in the production of milk. Dr. Darlington, President of the N. Y. City Board of Health, las found by
experience that a little persuasion is good, hut hat forceful measures are sometimes hetter. He the farms where the milk is produced and the
creameries where it is reccived. If they find milk is being produced at the farm under-unsanitary onditions, or that preservatives arm heing used, mad suggestions are made to him for the hetter-
ment of such conditions. fiten a word to the
wise is sufficient; but if the farmer is obdurate
milk, and the one in charge is told of the inadparticular farm. If the farner ships his mili to the city by rail, it is followed oy the inspector and promptly dumped into the river when
it reaches here. Dr. Darlington believes in per-
sur suasion first, as he has no desire to put any(one out of business, but if the health of the perple
of this great city, especially that of infants, is jeopardized by unsanitary or unwholesome milk, by the Health Board impartially will be applie the middleman or the seller.
All raw milk, as contrasted with condensed
milk, sold in New York, must contain not les than three per cent. fat and twelve per cent. ratio of fat to solids other than fat are as the to three, and this is the usual ratio necessary to comply with the legal requirements of each state in this country. In England it is 3 per cent. would like to know where there is any large quantity of milk which contains not more than 3 per cent. of Pat and has 9 per cent. solius other than fat. If there is I do not know it, and
am pretty familiar with the milk situation am pretty familiar with the milk situation anc
milk analyses. Will some of your readers en lighten me? Let them look at the public tests and examine the ratio of fat to solids other than fat, and see if it accords with the usual legal
rate of the United States-one to three. perfectly aware I am raising "a leading ques. periectly aware 1 am raising "a leading ques
tion," but it is one worthy of being discussed. A strange condition of affairs in this State
exists, caused by the existing laws in regard to the fat in milk. By the laws, as they are now less than 3 per cent. fat. produce milk containing liver such milk to the receiving station, and he cannot te successfully prosecuted for selling it but the moment the receiver sells this milk he can be successfully prosecuted for selling milk he
low the legal standard. But the dealer or his agent at the receiving station are fully alive to the situation. A "clarifier" is run at the
creamery, or at the N. Y. City depot to curif creamery, or at the N. Y. City depot, to clarify
the milk. It is nothing more or ass that centrifugal separator. The cream is separated milk, or separated milk, are supposed 10 bo added together again. But are they ? I will
leave your veaders to decide this question leave your readers to decide this question ly
stating the facts. In certain sections of this and other States milk is dulivered at the receiving
stations containing 5 per cent. fat ; frequent an stations containing 5 per cent. fat; frequent an-
alyses by the Babcock of bottled milk sold at 8 alyses by the Babcock of bottled milk sold a cent. fat, and often between 3 per cent. and per cent. What became of the fat that was the milk between the time it reached 1 he receivin station and its delivery to the consumer? I
has been repeatedly asserted in print, and not denied, that at certain receiving stations eieven 40-quart cans of whole milk will be received, and when it has been clarilied 1 can of cream and 10 cans of whole milk will be in its place. Yet the
legal requirement of 3 per cent. fat has been complied with
The Board of Health has an appropriation of
$\$ 30,000$, with which it employs trained nurso $\$ 30,000$, with which it employs trained nurses
to visit the thickly-populated parts of the city where the poorer classes live, and teach them how they can best care for their milk, how to the past winter I delivered a lecture in New ork, Brooklyn and Long 1sland City, under the cation, on "Milk from the Farm to the Table, illustrated by stereoptican vie"s. The andicnce was very large on each occasion, and seemed very
much interested in the subject. The lecture wa much interes
educational.
Dr. Darlington is a progressive, energetic pily been removed by him from politics, and vast amount of good has been accomplished. This is evidenced by the fact that at the present time but 10 per cent. of the samples of milk
taken by the inspectors as suspicious (not 10 per cent. of the whole) are condemned as adul-
terated or deleterious, whereas five years ago 38 per cent. of suspicious samples were condemned. fants has decreased to a very appreciable es tent With the crowded conditions of part of New York; with the foreign element, unused to our
customs or even to our languare, and irnorant customs or even to our language, and ignorant
on the subject of milk, the tremendous death rate of a few years ago among infants was
traceable to a large amount of milk unfit for human consumption being sold in the city. I am glad to say that science and practice, going
hand in hand, have made such vast improvements in our milk supply that New York has never seen such good milk as it has to-day, and that receiving any better milk than New York.
VALANCEY E. FULLEI

## Narkets.

## Winnipeg.

Thompson, Sons \& Co.'s manket report says:
Wheat-The crop reports are rather conflicting. A sood many of then from Texas, Okiahoma and Kansas, as
well as some of the other early winter wheat thet report the wheat thin on the ground and heads short, aggesting a disappointing yield, besides which there is
mention of rust in some parts.
Other reports are not nearly so pessimistic. For the most part there are good reports from the spring wheat States, but there
ugain everyone does not see the prospect from the same standpoint. Too much rain and absence of sunshine heeps the weather condition too cool. The United
States Government report for June gave condition States Government report for June gave condition of
vinter whent on June 1st, 85.5 , against 92.5 on May of spring wheat is given as 93.7 , compared with 95.9 on Jure 1st, 1904. Harvest has begun in Texas,
Oklahoma and Southern Kansas, and new wheat has make seasonable procress, and large world's chipe to rom Russia, Argentina, etc., continue to supply importing countries with all they need. Manitoba wheat
in the Winnipeg market has been rather uneven. July Wheat has been kept pinned at the dollar. There is holds the price of July and cash No 1 and 2 northern holds the price of July and cash No. 1 and 2 northern
up to present figures. There is practically ino export or shipping demand. Crop prospects over Manitoba nd Canadian Northwest continue very favorable.


## PRODUCE.

Potatoes-Car lots on track, Winnipeg, 55c. per Butter-Jobbers are paying 14c. to 15c. for choice ; round lots, 12 c . to 18 c .; bricks, 15 c . to 18 c .
Eggs -14 c . to 15 c ., in casos. Poultry-Prices higher; demand good; fowl, 14 c ,
ickens, 16 c .; turkeys, 19c.; ducks, 15c.; geese, 14c. Hides-6inc. to 7c. at country, points for butchers
hides ; full wool sheep skins, 60c. to 750 ., et country hides:
points.
Cattle are moving more briskly, but prices remain
teady. At Winnipeg dealers quote best butchers' 3 dc . eady. At Winnipeg dealers quote best butchers' $3 \mathbf{i d c}$.
o 4 c . per 1 b ; medium grades, 2 c c . to $3 \ddagger \mathrm{c}$. Mogs-Receipts continue very good; prices firm.
Iive hogs, weighing from 150 to 200 , bring 5 fo.;

## Foreign Crop Conditions

lowing Breintz \& Co. (R. B. Holden) furnish the folLiverpool, June 20.-United Kingdom-The weather France cause complaints of rust and lodging.
$\qquad$
$\qquad$ Russta-Reports are now qu
ications of smaller shipments. Italy-Moderate complaints of damuge to the crop.

## Montreal.

iretly good cattle, $3 \frac{1}{2} \mathrm{c}$. to $5 \mathrm{c} . ;$ common stock, $2 \ell \mathrm{c}$. to 3 cc .; lean canners, about 2c. 1 b . For good large sheep
shippers pay from 3 q c . to 3 c . 1 h .; butchers', 3 \& c . to c. Good lots of lambs sold at $\$ 4$ to $\$ 4.50$ each.
Hings, fat, fic. llo:; fed, up to 7 c ., for selects, weighed


## British Cattle Market.

found: renimerator heep quoted 910 , to $12 \frac{\mathrm{c}}{} \mathrm{c}$. per

THE " WANT AND FOR SALE" COLUMN OF THE " FARMER'S ADVOCATE AND HOME VERTISEMENT. SEE RATES UNDER THAT HFADING TN THIS PAPER ADDRESS: FARMER'S ADVOCATE AND HOME MAGA ANE MNN ADEA MA


Life, Literature and Education.

Charles Dickens.


Thirty-five years ago this month here aied in England the novelist who, perhaps, wore than any other
English writer:, has endeared himin his all classes of people, both in his day and ours. In London occasion of a great demonstration in his honor; in Canada, it is but fitting that we, too, should pay his
memory tribute. Charles Dickens was born Feb. his father was a clerk on a smere salary in the navy pay-oflice. With less" habits, the elder Dickens found the problen of making both ends meet too much for him. His little he was dinally imprisoned at the may be said that he still lives in the immortal Micawber, who, will
go down the ages "waiting," go down the ages "" waiting," like
many another of his clan, "for something to turn up." The mother of the family scems to have been scarcely more "thritty," and as a conse, uence the education of the
children was sadly neglected. children was sadly neglected. Dur-
ing his early years, however, Charles made up for this by an insatiable habit of reading. Even at the age of eight years, his genius was al-
ready showing itself by hie devotion to Fielding, Smollett, Lesage and Cervantes, writers who have been wont to tax much more mature in-
tellects. At a later day he added dison, Steele, Ben Johnsion eare was at all oldsmith. The Bible Having at last been liberated from the Marshalsea, his father went tion of reporter for the London Chronicle, and here in this big city
were spent the saddest days of the athor's life-the saddest, and yet
the richest in the material whose elaboration was afterwards to moske
him fumous. For a time he worked him fumous. For a time he worked
at odd jobs along the Thames, and even was apprentice in a blacking
establishment, mingling with mans rasis, reted (or orl time in his booke
as many educational institutions, one of which. doubtless, afforded the basis of "Squeer's., Academy," in time afterwards he was clerk in an
attorney's oftice, where he became conversant with the legal facts and ings. But, for the most part writ education as he attained was due to his own efforts. Among other things he taught himself shorthand, an acquisition which stood him in good
slead ; in fact, his whole earlier life, unwittingly as it was, seemed to have a direct bearing on the work of his after life. By reason of his given the position of reporter for
the True Sun, in the gallery of the House of Commons, a position which later led to his appointment as general reporter for the Morning
Chronicle. In this capacity he was sent here and there all over Eng
land, and so enabled to travel in stage-coaches, lodge in travel in ningle with the great mass o
"comunon". people, in whose dewhose every is at his best, and perceived with hawk-like peculiarity he registered in his memory Friailing tenacity. original work, first in a series to newspaper articles which appeared as "Sketches irom Boz." In 1836 whose success was so marked that the struggling young journalist of ly one of the most popular in England. From this time his pecuniary troubles were at an end.
In fast succession came ol $\ln$ fast succession came "Oliver
Twist,", "Master Humphrey's
Clock ", ", Nicholas Curiosity Shop," and ""Barnald Rudge," all of which were widely read and lucrative. In 1841 he turn, published those works repleasing enough to the American people, which marked him as a satirist of the first order-" Ameri-
can Notes," and "/ Man can Notes," and "Martin Chuz-
zlewit." In 1843 appeared "The Christmas Carol,", "The Chimes," "Cricket on the Hearth," and "The Haunted Ilouse," The next year
he went to Italy, and finally settled for a time at Lausannc. Here were written "Pictures from Italy ", were "I Dombey and Son." F.innwing (his poorest work) and Hard Times rit." About 1850 he established the magazine, "Household Words." gan of an association known of or Bekens Fellowship." nous amount of writine, he was theatrical commanics connected with manager, playwright, acting as stage casion, even as actor. In 185 "/ reading" " tours, which netted him sulted in underminines his health. The old same seare, "Gadshill." whare famou unate domestic complications in midiately lad to his somparation from
sutual Friend," appeared in quick succession. In 1868 he again came returned to on a reading tour, but health, and began his " Mystery in Edwin Drood," which was inever finished. On the 8th of June, 1870 after working at his book all day alysis, and died the following morn ing. On the 14th of June he was buried in Westminster Albey with the ceremony which Great Britain have proven themselves the worth rest among her childry. 1 .

The Literary Genius of Dickens
Charles Dickens would require noth ing short of a volume ; nay, to it volumes. Yet, upon this anniver sary of the great author's death, a amiss. It has passing, may not be of wonder as to why his books have faken such a hold upon the publicindefinitely, among the most popula on the sales' counters. Faultless
they are not. Occacionally narrative drags until it becomes al most wearisome ; alnost invariably they show lack of system and bal tions there is ample in some por hurried work, in others a straining for theatrical effect, due, probably stage. Here and passion for the stage. Here and there, even, one
may detect a positive lack of skill in inventing a natural sequence events to bring about a desired sit-
uation. His style, though in uation. His style, though in general masterly, and in places ascending
to the very highest type of literary art, is not uniformly up to the rec ognized standard of excellence. Yet he is, perhaps more than any other English writer, beloved by the great
reading public, and his works hover been translated into almost every other language in which books are
written or Then or read
The greatest secret of his popular-
ity, probably, lies in his sympathy, and that keen insiounded to the motives and thoughts of men, which-since human nature does not
change, though its outward manifes tations may-has rendered Dickens, like Shakespeare, "" of no age," be-
cause belonging to all. Add his inimitable humor, his pathos. and the fact that he extels picturing. all in depicting the great middle
class-the class to which the not appear wonderfun w-and it manot appear wonderful that he should
be popular. We like to be popular. We like to laugh, we
like-so far as our reading is cerned-to cry, we like to encounter on paper. In all this, and more. Dickens gratifies us. He understands
the human heart. Ho internits derstands him tolf. The world unlIt has heen claimed that Dickens 5

In a little book called " Friendship examininer the Carman has told of friend who always painted his shad ing seened unnatural and he jected. His friend simply told him to use his eyes." He did so. and, after a short time, was astonished him bluc, a thousand times more beautiful than the brown ombres he had imagined then to be, simply besibly, umong many of Dickens; critics, a little closer observation real life might bring about a modi"exaggeration ", criticism as to his "exaggeration." Certain it is the more often do we meet his very business, in our homes. True, he often forces the " eccentricitics" of constant repetition, but this repetition serves its purpose in giving a
distinctiveness to each individual amnong the hundreds of which ho
treats, and without it his would lose immeasurably. His binoks contain matchless examples of the for example literary art. What, to portray Sairey cxcel the ability way as to disclose to our minds the was in reality, and yet chable us to see her live in the story, without a he is equal to this achievement agai Howkens' books, unlike those of lauded school others of a highls a purpose. He was a champion the poor and downtrodden, and cause. his whole soul into their hor for fame, although both of thes his very ambition that his that well-sp do good was not the true When writing, he laughod and cried with his paper children, and more
than once grew positively ill over their troubles. Could the expres erful? However that may be, the far as literary foresight remain, so esv, that he ranks among the most

The Death of Little Paul.
Littue Dombey closed his eyes with he awoke the and fell asleep. Whas high, and the Then he awoke woke mind warm. saw them now about himed. He was no gray mist before them, as nicht. He knew them every one and called them by their names. murse.." asked the little child re reat Yes, fies in vother strang




五
right to fondle It. No other wobody there but him and Floy, and
been so full of tenderness b Floy this is kinds and pity I am glad to see it again. Don't
go away, old nurse. Stay here Gioud-bye! ! Goou-bye my child !." "' Good-bye, my child !"' cried Mrs.
1'ipchin, hurrying to his bed's' head. "Not good-bye ?" papa? father's breath was on his
His
cheek Lelore the words had parted from his lips. The feeble hand hand
waved in the air, as if it cried "Good-bye '" again.
N Now lay me down; and, Floy, you."
Sister and brother wound their arms around each other, and the
golden light came streaming in, and .. How fast the water runs ber. its green banks and the rushes,
Floy! But it's very near the sea now. I hear the waves! They always said so
l'resently
motion of the boat upon the stream was lulling him to rest. Now the boat was out at sea. And now
there was a shore before hill. Who ." Mamma is like you, Floy. I know her by the face !" '
'The golden ripple on the came in the room The old old fashion The fashion that came in with our
first garments, and will last un changed until our race kas run its rolled up like a scroll. The old O, thank God, all who see it, for that older fashion yet, of Immurtality! And look upon us, Angels of bears us to the ocean!!-[Charles
Dichens, in "Dombey and Son."

## Up from Slavery

The story of how the little colored quered every obstacle which wavering determination to obtain an While at work in a a romance. overheard two miners speak of a great school for colored people somewhere in Virginia. It was called
the Hampton Normal and Agriculthe Hampton Normal and Agricul-
tural institute, at which poor but Worthy students could work out all and at the same time be taught some trade or industry. He resolved
at once to go to that school, alhough he had no idea where it was, twas going to reach it. He was ired by the one ambition-to get to himpton. The thought was with him day and night and never left
him, till after lony service, patient wating, and the learning, meangates, whe presented himself at its Paradise. The story of that in eading. $\Lambda$ year and $a$ half of it
was spent under the strict supervision of a mistress whose teachings urthering his great work later on "Even to this day," writes th never see hits of paper scattered
around a house or strect that I do
not want to picis fard that I do not want to clean it want to put it on, an unpainted or want to paint or whitewash it, a
button off a coat that I do not want to prut it on, or a
crease-spot on the floor that awny." And so was learnt the lesine of many others since-that every-
thing must be done systematically and promptly; nothing must be
either slinshod or slovenly. whilst

THE FARMER'S ADVOCATE
at the bottom of all must be found HOW HE GOT TO HAMPION. Tramping part of the way, getting occasional rides in trains, wagons or cars, as his very small regources allowed, and once having to walk the
whole night through, outside hotel whịch would not admit an on account of his color, Booker at last reaches Richmond, ${ }^{\text {Virginia, }} 82$
miles from Hampton.
He had never miles from Hampton. He had never
been in any lar ce city, huew no one,
and was without a copper left in purse ; moreover, he was so hungry that the sight of the food stands, was alnost chicken and apple pies,", the streets till after midnight. discouraged, hung, and everything but discouraged," and then, finding spot where, the stdewalk being e
vated, was a nook into which could creep, the weary traveller he the extreme of physical exhaustion, snatched some hours of slumber, u discovered and undisturbed by the nights the undaunted boy, having obtained work in the unloading of a
ship, slept under the sidewalk, until ship, slept under the sidewalk, until
he had earned enough to carry him to the promised land. Hearing him
to been or change without proper food, a bath, that there were doubts in the mind of the teacher to whom he presented
himself, as to his admission. last she gave him his chance. "The recitation room needs sweeping take the broom and sweep it. ceive an order with more delight knew that I could sweep, for Mrs Rufiner had thoroughly taught me I swept that room three times. Then I dusted it four times-all the woodmoved every piece of furniture, and cleaned every closet and corner. I had the feeling that, in a large measure, my future depended upon teacher in the cleaning of that room. She was a 'Yankee woman, and knew just where to look for dirt, and her reply was, 'I guess yo
will do to enter this Institution and that made me the haptiest crea ture on earth, for it paved the way Workine get through Hampton. his studies as best he could mounted step by step could, he Everything was new to him at furst; even his very bed was a slept under both sheets: thent he night on the top of both of them, he learnit that he was to mandwicl his tody between them. Greater
problems were unravelled by growing powers of observation his difficulties, unsurmountable, as they would have appeared to most people white or black, melted away befor his indomitable will and steadfast-
ness of purpose. From a pupil he became a teacher, surremely happy to use any opportunity which offered to help others as he had been helped ward, until finally, in 1881 or recame to him an invitation to his dated Tuskegee, Alahnma, from the Sromoters of a proposed Normal ington will suit us. Send him at
once."

Appreciation of the "Quiet Hour.
The followimg has just heen ricelven Dear Hope- of the Quiet Hour,-You do
not know how much your words In the Quiet Hour to-day on ". Rest in the Lnrd " have cheered my heart. Have
jnast been reading tit in the quiet of this a day full of trouble and heart has hee nic. and those heautiful words of Rest scerned to come to me ns a special
messape, and have turned my thoughta the beautiful world above, and my hear finds Rest. Thanking you so much for
those as well as other cheering words those as well as other cheering words I I always love the Quiet Hour, am alwaya a

## 

Puzzle Competition.
weak, but don't send in your answers
just yet. You shall have full direction later on. You shall have full directions

A farmer had two sons. He gave ineteen cents to one and gix cents to
the other. What time would that be ? Nature's renostic. Nature's renovato Hard water.
Proper.
A numeral
My initials when read downwards and my finals read downwards give the name

My First is a short and familiar name give to an islander well-known to
fame, if you reverse it you mention the
place Where sometimes that islander's found in I'm sorry to say that all I have left In bereft, I am told that when out of em $\mathrm{He} \begin{gathered}\text { ployment } \\ \text { looks or }\end{gathered}$ $\qquad$ $\underset{\substack{\text { joyme } \\ \text { wish I } \\ \text { name }}}{ }$
That all
When has a man. A riddle.
V. A flower wedding

What was the bridegroom's name?
2. The bride's name ?
3. At what hour was the wedding?
4. Who was one dark-eyed bridesmaid
5. One from between the mountain
6. One precise maiden guest ?
7. What pecaled the malden guest ?
8. What did the bride wear on her
head? What did she wear on her feet?
10. What did she wear on her feet?
11. What style of collar?
18. What was the color of her eyes
14. What bashful guest?
16. What homely gifts did two country
cousins give the bride?
17. What did the bridgroom wear on 18. What did the bride to friends when she went away?
19. What star shone on the newlymarried pair?
20 . How long will their I am a word of 14 letters. Tom and Harry, who were $1,2,3,4,5,6,7,8$
companions 6,8 school, were 11,10 , 14 day talking together of the glorious 14, 6,5 and land 10,4 of men, both on 4 , Harry, " 9 admine " For my part," $6,12,11,13,14$
said 14 more than many others."


## Sowing and Mowing

## careful what you sow, my hoy,

nd what yoius sown will grow
Will bring you ioy or woe.
For sowing and growing,
Then reaping and mowing,
e the surest things that a
And sorrow undying,
ill never change seed that is sown
Be watchful of your words, my boy,
Be careful of your acts,
Be careful of your acts,
For words can cut, and decds bring And wounds are stubhorn facts.
Whether sleeping or weeping. Or weary watch keeping.
or The rose brings new roses s. grow ; The thorn tree discloses
ts thorns as an index woe

Then fly when sins entice
The seed one is sowing
Through time will be growing,
In joy or in sorrow,

A Small Hero.

${ }^{\text {mee }}$ Ho was a squareshouldered ittuo boy

 batyhood. But he was baby. He hal a pair of blue overalla they played boys on our treeot wore wher were on ho had a tuny way or taving long stops and standing with his tarting apere as if ho wero about as tall as his Halt a dozen other Tom Thumbe, whe arso worn overalls and took long atepe
chose ch harite tor thelr loeder.
Inetead ot calling them Kenneth, and wulte, and Joe, our Charile ued their last namenwhile they called him MacArthur, or, still better, "Mac." He was happy when he These dear litule pygmies had a big worn out, and theye older brother had patiently mended it day after day, and kicked it so vigorously that usually the
kicker fell backward into that was taken as part of the dust, but Charlie's mother used to say : "Charlie is a born leader. Oh, if I could only
know he would be a good one!" I can tell you, boys, between ourselves, that
ever so many mothers are thinking of that very thing. little chap wandered
Well, one day a into our street and began to play with what he called the boys who followed his lead. I do not know what owed his parents or home this bad boy had, but somewhere he had taken lessons in evil, hour, he began to swear, taking the name of the great God in vain. Charlie stopped playing and drew a long breath.
"Did you do that a-purpose?
" Yes, and I'll do it again," replied the "Robinson ! "" cried Charlie, to his oldest follower.
." Here ! ${ }^{\prime \prime}$ answered willie, running Charlie's side, while the rest of the boys "He sweared," saild the little captain, standing very straight and pointing to
the culprit. .. and we don't play with boys that swear, on this street
No, we dont.
"What'1 Whed.
". You cant do anything. I'll stay
here if I'm a mind to," said the boy kicking dust toward them. said the boy,
" Not if you swear when ments say not to," answered Charlie.
/ No, sir : not if you swear." echect others. "' And we don't want you it you've got "et," snidid the deenant dem on the
 The boy took up a stone to thro little figures he dropperl it and turn sulkily away. mouth with soap-suds," said willie Robin"And don't you come again tlll-you's
over it," added the captain. as If the They waited untii ". Sulivan " turned a
corner. and then thry went on with their play. Charlie's mother, who ent bosid
But
careful of your frlents, my hoy
Nor walk and mate with vice. Nor walk and mate with vice:
"The boy is father to the man", an open window, could not see to set nother stitch until she had wiped the
cars from her eyes. But they were not
sorry " tears. MRS. W. wCoTT,

## Unawares.

(Sent in by F. R., Sydenham, Ont.) They said-" The $\mathrm{M}_{\text {aster }}$ is coming To honor the town to-day, And no one can tell at what house home
The Master will choose to stay
wildy -

What if he should come to mine How would I stribe to entertaln And honor the Guest divine ?"

And straight I turned to toiling
$\mathrm{T}_{\mathrm{o}}$ make my home more neatswept, and polished, and garnishe And decked it with blossoms sweet Might come ere my task was done And I hastened and worked the fas And watched the hurrying sun
But right in the midst of my duties A woman came to my door: And my comfort and aid to implore. And I said-"I cannot listen Or help you any to-day, have greater things to a attend
And the pleader went

But soon there came another-
A cripple, thin, pale and grey And said-"' on ! let me stop and rest I have travelled far, since morning I am hungry, and frint and weal $M y$ heart s full of misery, And I seld-"I am grieved and sorry, But I cannot keep you to-day. look for a great and a nobler Gues And the cribple turned away. And the day wore onward switl
And my task was nearly done And a praver was ave 't "That the Master to me might come. And I thought I would spring to mee Him
And treat Him with utmost care With a tace so sweet and fair Sweet, but with marks of teardrops,
And finger was bruised and bleeding,
nd I Burd 1 am sorry for sod But I cannot ston to dive You must hasten otherwhe And at the words, a shadow Swept over his blueveined brow dear, will feed and clothe

At last the day was ended My home was swept and garnitheel And I watched in the dusk, alol No one paused at my gate: No one entered my cottage d

Waited'till night had deepened and the Master had not come cried And gladdened some other home My labor had been for nothing, My hart was sore with longing

Then the Master stood before in
And His face was "Three times to-day I came to And craved your pity and care Three times you sent me onvaril
Unhelped and uncomforttod And the blessing you might have had was And your chance to serve has fled., Oh! Lord, dear Lord, forgiv.
How could I know 'twas Thew My soul was shamed and bo In the depths of humility, And He said-" The sin is pardone But the blessiny is lost to thee


A Royal Guest. Behold thy King cometh unto the
S. Mhatt. $\mathrm{xxi}$. . 5 .
She .
saw knew not that it was Jesus.-S. Johi $\underset{\substack{\text { xx. } \\ \text { To-day }}}{ }$ S. Luke xix. : $: 5$, , abide at thy house. The Spiritt of Giod lies all spirit of man like a mimithty seat ruady spirit of man like a mighty sea, ready ${ }_{-G e o}$ walls that shut Him out from His own. - Geo. MacDonald.

A missionary, talking with some lepers In India about the second coming of Christ, asked: "Do you think He will
 ly and earne
we hope so.
we hope so."
Don't we know? He who said to Zaccheus, "To-day I must abide at thy
house," says to each of ue at dhy house," says. to each of us fo doy.
" Behold, I stand at the door, and knock: if any man hear My voice, and open the door, I will come in to him,"'
Unless He is already inside-an henored Unless He is already inside-an henored
Guest-He must, even now, he standing uest-Me must, even now, he standing
the tomb, who saw the Master she loved standing besice her "and knew not that
it was Jesus." An old wood-cut represents Christ as the Soul. He is . holding a mask before His face, and the Bride shrinks back in
fear because she does not reco mize her Year because she does not recospize her
Lord. Instead of welcoming Him sho is trying to escape, for the beauty of the
loving Ioving face behind the frowning musk is
hidden from her sight. so ? Christ appears to is son not ofton all His wonderful beauty, and our souls are enthralled by that glorious vision. and terribles He comes in a strange and terrible diegrise. Pain, sorrow,
poverty, death force their wion poverty, death force their way into our
homes, and, instead of meeting them bravely and looking for the love which is surely hidden behind the mask, wo try to escape. Some valuable gitts they are
sure to leave behind-unlego sure to leave behind-unless ive Ight bit-
terly against Cod's will in wendint bit terly Rgainst God's will in sending' such
stern messengers-but we can only find "joy" in tribulation "if we are clearsignted enough to recognze the Eride-
groom through His stranze we do know Him surely we can be strons m surely wa' can be strong
and brave ene
hold
hough
out
oulcoming

 many ano ther wise
physician and surgeon He shoulu onter, a bitte
cup of healing medicin or cut us to the quilk,
Instead of thrinking Instead ${ }^{\text {of }}$ of thinking
away from His touch, let us try to press near-
ere, even though we can
only onty grow like Himp
throug tellowship with
Hic - O O shun not thou the Nor tremble at its
The ;
There is no witter in the There is no bitter in the He counts thy tears, and ken, eve thy pain,
Yevery
Woo is But once on
Silim was
Inid
$\qquad$


$\qquad$



The Light of the World. By Holman Hunt.
your Kines, and hass a right to the l.a.t
room in yourd hous.
in your heart. The l, i, aulifulul way. given above, which werversent in in wy
of our readers, show how often of our readers, show how often
refused adme ithitanco, oven by thuse whin refused admittanci, oven by thuse wh
think He is the croc they must delistlt is
 it the Light "ir
world can lighton the
wor
 happ,iest hours, for His Sturngth. Wht can make our hearts mory
 money. of course we.t.e never (athl mp to sur "Wportunities. He is here. day : W. hane rieht in wur hand
$\qquad$
routine work of life would becom Than every thing would be " worth while, parent dreary monotony of duty. common task" which has to be don ery day would then be always new an eautiful. Then we coula never tret a ments which come straight aisappoin and; we could never grow impatie th othor people, because we should see e cross or unkind to them would bo eobel against Him. If we really felt Hi 1 -natured words the room harsh culd never be uttered, we should neve think of indulging in rude or unseemly most important of all-wo chuld careful guard over our thoughts, know ing that they are naked and open to His Living always with people whom we ad mire and consciously try to cony is an result in our becoming steadily mor and more like them, and the only way of brist io thanged into the tmage of and to reflect, as a mirror the shiay brightness of His character, That is the oody is attracted by beauty; ; and thos no continually look at the King in Hi most impercentibly-in the berbaps, a ness, and so attract others noarer to th ell you source of soul-beauty. Shall quictly lived in Toronto? A nobly woman is so eager to entertain the King royally that she goes out washing by
the monoy for her own necessities, tout car she may
her country house enough to receive into eral weeks ench summer. gits tor second-hand illustration, tor a friend of mine mhyolf. She washes her presence in the house is "a rea
bencediction." who sacrifices herself in order to enter Cin the King so loyally is sure to carry
His presence with her everywhor goes. People cannot fail to torke knowl when the Light of the world lights liant flame it burns with such a bril Greatest must lived always with the "common" work may spoil the whild What an honor it would have been under His direction in the or to work Nazarecth : Well, may not every man, Hiim on the farm, in the shop, kithen a human soul the fraeprance shod liy llis presence, who is the Rose of Sharon and
the Lily of the Valley, whose very Noume is an oincurent poured forth, will fill the
whole house with sweetness. aromatic carth says in in Ens. Astern faille:
./ 1 was common planted in me. Cerfumes are not orly
plensant to the senses have a healuhful inlluenceria MacMillan
syas that duris a visitation of cholera
in London and in Luondon and haris, none of the people
employed in the perfume puanulatatories


tragrant lives, they unconsciousty purity
he moral atmosphere with healing power diseased souls, wall As sumn rare perfume in holinese Camera Competition
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Narcissi Withering Off.

## $$
1
$$ <br> <br> 

 <br> <br> } Wolve some of my difficulticis.Would you you to
partmete Would you please tell us in your de-
'artment of the ". Farmer's Advocat '-

1) why so many
(1) Begin now to root slips and start
 hen do not mature, but wither before Remember that Sweet Peas, Dahlias
bursting the sheath? I have thought Rechot Peler disting the sheath? 1 have thought Red-hot Poker Plant and Lilies, in par
it is trecause they ncod to be separated ticular, require plenty of water. Soak again, or else to be planted deeper. If them right down to the roots whenever
that is the case: (2) How deep should the soil becomes dry they be planted? (3) How far apart, Give annuals plenty of shallow cultive and how many bulbs should be in a tion with a hoe, taking care, of course
group? (4) How often should they gropatat (5) What length of time nou for your trouble.
separated
should elapse between lifting and re yill repa
phrubs, should elapse between lifting and re- Shrubs, according to a good authority,
planting, and how should they be kept should be pruned soon after the flowers
during that time should be pruned soon after the flowers
are off. Remove only the sprouts which have flowered and any decayed wood or straggling shoots. This will induce a good growth of new wood during the
summer, and prepare a copious supply of blossoms next year.
This is the time for resting plants in-
tended for winter booming Ture tended for winter blooming. Turn the
Calla over on its side somewhere give it no water whatever until Septem-
ber. Most other plants require a little occasionally to keep them from dying drop off; that is what they should do

## The Light of the World.

 $\left\{\begin{array}{l}\text { season. When there was but little sun- } \\ \text { shine. We have also known them } \\ \text { provokingly }\end{array}\right.$ provokingly in gardens under the best ofcare, while at the same time in care, whine far away, on a neglected grave, it is on exhibition in the various citices and, apparently, under most adverse of Canada, will be interested is seeing the
conditions, dozens of the white blossoms copy of it which appears on our Quiet were waving in the wind with all the
lustines lustiness in the world. Possibly the explanation of the difference lay in the fact ous plants, resents too much other bulb-
We cannot We cannot tell you positively what will
prevent the prevent the blight, but the following
method of culture may rid you of the
trouble : Plant the bulbs in Sou grouble: Plant the bulbs in September in where it will not be pecessary to dis-
turb them until the bulbs become crowded; once, perhaps, in every four or
more years. If necessary to add manure to the soil, let it be so old as to be
quite mucky; otherwise manure should quite mucky; otherwise manure should
never touch the bulbs, nor should it
ever be applied in linuid form ever be applied in liquidid form. Put the
bulbs in about seven inches deep and eight to twelve inches apart, and re-
member to divide them just as soon as member to divide them just as soon as
they become crowded, as if this is not done they will cease to bloom. When
dhe surface of the ground becomes frozen the surface of the ground becomes frozen
on the approach of winter, cover the
border with strawy manure border with strawy manure to a depth
of five or six inches, raking it off again as early as possible in spring. Narcissi
ahould never be planted in a hot, exshould never be planted in a hot, ex-
posed situation, nor in one in which the
drainage is not pood. If there are not drainage is not good. If there are not
plenty of spring rains, they should be plenty of spring rains,
watered very frequenty.
To question 5, would say that Nar-
 all, except for thinning purposes, or when all time. The weed-grown garden, the
one wishes to move them to a new door overgrown with vines, and latchlese
lace place. In such cases they should not be signifying that it must be opened from
kept out of the ground any longer than within, tells its own story; while ind
necessnt
 re-plant them again, if not convenient
to do it at once. . Have not space
to-day to treat of hyacinths, etc., but
shall try to do so at some future time,
As to the Parrot tulips : Yes, they are
more delicate than the ordinary kinds, RE ENGLISHI IV Y.
A correspondent writes us that she has near Sarnia, Ont. Sarnia is, of course,
in South-western Ontario, one of the
mildest portions of the Doninion. Wi. , 'mildest portions of the Dominion. Wc de


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## Recently wrote us:

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## N. B.

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The Play Impulse. Summer
its work. Yes the with tis charm-and aiven a litte time for pleasure, Foot tts work. Yes, the work is not lacking; they will neither require nor care for,
what with the gardening on land, and but be sure the odd half day given to a
the haying, berry-picking and harvesting then the haying, berry-picking and harvesting fishing excursion or picnic party will not
looming up in the near future, it hardly sooming up in the near future, it hardly
seems as though there will he breathing tine until the long days have gone and for in grateful memories of the old horle, the nights begin to lengthen into the dull $\begin{aligned} & \text { and sturdy appreciation of the parents } \\ & \text { November. But if there is work, there is }\end{aligned}$ have not forgoten what it means also compensation, if we but take time
to recognize it. Have you ever thought ine towns, the play impulse is theof this while driving along on a hright ginning to be fully realized. Few of the
of
June morning ? June morning ? Perhaps your way ever for getting some of the best of the suin-
and anon takes you past a woods with mer; whether it be houting or
ind ing the leaves ahove into green-gold You peer into the depths and see little clumps of ferns and all the tender green
things of the wood standing up as
though rejoicing in life and the summertime. What a fresh smell everywhere!
What a bracing tonic in the air. going to the blood ! What cleanliness of the atmosphere, in Which not even a dust- the invitation, will take advantage of in their own why
mote floats ! What a gurgle of music whether and
 pouring forth his heart in the meadow simply taking time to drink in the or in
yonder. Perhaps, if you are very
ties of lane and wood and hillside, yonder. Perhaps, if you are very for- all the interest of the litue birds ant
tunate and live in the right district, you animals which flit among the greencry
may chance to hear the fule call a the white-throated sparrow. ""I love dear will make some attempt ut least to ac
Canada, Canada, Canada." reilterated cept a few of the good things held
 the little songster, for he is very shy. He Marmer's Advocate" office, Winnipes. he has a song to be waited for in the inBue what ranbling on is this ! What I
really set out to say was that, if we are wise, we will crowd as much pleasure as Dear Dame Durden,- I have often
possible into our short Of course, there is work glorious summer.
money to done and


 each one of us, and which, if we are laking their wives to church. I have
good, wholesome, whole-hearted, normal might, that perhaps might serve. Sh
people, is likely old age. Human nature when uninter- "In selecting your husband, you should
fered with, calls for pleasure just as it be guided by the silvery appearance
does tor as in buying mater life, and if we have no such craving in tint, as if you wanted salmon. Be sure
us we may be sure that we have per- to sect him yourself, as tastes differ.
mitted it io become stifled by haverwort or avarice, or carelessness. Possibly we, are always brought to your door. When
have " got out of the way of goong out," bought, tie him in the saucoran wit have got out of the way of goting out," strong cord called Cornfort, as the kind
and imagine it is more bother than it is salled Duty is apt to lee weak. Hus-
worth; but probahly if we just take the called trouble of "fixing up "a little and going bands sometimes fly out of the sauceran
across the fields to a neighbor's. or to a become burned and rusty on th.
picnic maybe, or for a little drive sicnic maybe, or for a little drive, we you have to cook them alise. Mahen
shall be surised at our capacity for en- you clear, strong, stendy
ioyment doyment, and pleased at the renewed of Love, Neatness and (hluerfulnem,
brightness and energy with which we of
shall return to


 begins to "play with ", things, and this instrument into himn sto stick any sharp activity, just for the sake of amusement. coming tender. Stir him gintly, watch-
if allowed its natural course, is is likely to while lest he shomld lio too clusic
continue for the next twenty or twenty.
in the saucepan and so theome
$\qquad$
$\qquad$
$\qquad$

$\qquad$
cation of simple pleasurea, Among sad
simhts is that of young boys and girl
worked into old mem and
their time, slaving away from morning
till night, then dropping into hed too


THE FARMER'S ADVOCATE.
The LEAVENWORTH CASE

Advortheomente will be Insertod under thly

 ${ }_{25}$ oenders.
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 Tr hat of improved
 AND for nale in the noted Wolseley Districh erritories. Addres J. Widlemies, Wo ieles




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. $W^{A N T E D}$ at once- Salesman in Manitoba and


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| LEAVENWORTH CASE. By A. K. Green. <br> CHAPTER XXXII.-Continued | Does a Vacation Pay? <br> Does it pay to regain your cheerful personality ? <br> Does it pey to sip power from its very fountain head? | Contents of this Issue. |
| :---: | :---: | :---: |
| close to me, she gave herself | Does it pay to incrrase your crentive | ustra |
| of tears. <br> oked at her in uncontrol | Does it pay to get a firmer our business or profession? | raking in the Situation berta Horse Ranch |
| "Oh, Mary." said I, " have I succeeded, then, in making you | $\begin{aligned} & \text { Does it nay } \\ & \text { fidence by up-by } \end{aligned}$ | Judging Two-year-old bulls at gary Show and Sale |
| rable ? " , makng you |  | Lord Kimberley (7536). Carrie |
| d not been taught to | 11 a |  |
|  |  | ITuther Burbank ... |
| they talk repen |  | I'rince Arthur and © |
| t ! If some one or someth | Does it pay to get a new grio upor | The Great Simplon 'Tunnel |
| only change mine ! " But there is |  | editorial. |
| my |  | To College of Not? |
| ish, wilful, mercenary girl ! ${ }^{\text {d }}$ |  | The Service of Fa |
| That same night she made a discovery |  | The Mission of the |
| ich increased her | Does it pay | of Railway |
| This was | enthusiasm of spontaneity an | hirses. |
| the |  | enk |
| to relating |  | On Developing Horses |
| as this diary of hers |  |  |
| vill not consent |  | Jo Geldings Mako a |
| I have done my best to show her that it is a betrayal of the trust I repoed in | Does it pay to | ance than Stallions? ... ... |
| her. She says that it is all there to |  | sтоск. |
| ow her |  | on Stock-breedi |
| of defence, if uncle should ev |  | ons Changing |
| or of treacher |  | ations to Inbreeding |
| deavored to |  | West of Englund |
| , |  |  |
| ted |  |  |
|  |  | Care and |
| , |  | Products |
| ${ }_{\text {anly, }}^{\text {ahly }}$, "Ob, yes," cried she, " | learn to read " books in | Rotation of Crops |
| rid of | and | Travelling for Agrisulur |
| Iore the afternoon was over, she had |  | Pl |
| It was acceded to with this proviso. | eet music of the ru | Whifletree for |
| neither to destroy nor | Is |  |
| ap |  |  |
|  | $a \mathrm{mere}$ a |  |
| were put all the proof of Mary's marriase | running in the same old grooves year | Rules for the milkern |
| -n existing |  | What the Creum Separator has Done |
| ering's letters, and such leaves from |  | for Canadian Dairying |
|  |  | on Buttermik |
| vas then handed over to ne | very wells | g for Milk on the Furm |
| where it has lain undisturbed till |  | The Prooess of Milking |
|  | tho | eight |
|  |  | rticole |
|  |  |  |
| $y$ ou will say |  | ( |
|  | hopeful outlook than to drag yourself to your work | Frut-growing in Manit |
| nding |  | Thasteful Farm Homes |
|  | pes | poultry. |
| Tmpossible ! | Does | Burf Orpington Ducks |
| led down. |  | The Fexting oft Chickens |
|  | catiom this year und lrreak down next | Kaising Incubator chic |
| Unless I found and brought it away | , | \% of situing Hens |
| ter the barn was destroyed," I sug- | bills, besides the time lost in furforced | 1 Poultry |
| Her face fushed deeper. |  | Isty |
| ds," said I. T |  |  |
| this |  |  |
| mind all this | and irr | , |
|  | w | Show at Winnipeg ; Prairic Home |
|  |  |  |
| a miday before she left, Mary the day wiv house to bid me rood-bye | -s to | With the Turning of the ('ycle; The (ireat Simplon Tunnul: A ward to |
| uly house to bid me good-bye. a ${ }^{\text {present }}$ in her hand, the |  | ,rring Park Nursertes: Amendment |
|  |  | Central Ex |
| ve | Eating curds and | Organization for Purchasing Sturuline |
| was this : $\sum_{\text {I }}^{\text {I }}$ I had been |  |  |
| re two months had | "ry've kerms in them, throw then | ty mik sul |
|  |  |  |
|  | I.ittle | agavine ... ..... 960 to |
|  | Sat in a corrner, | Fstions anj lyawers |
|  |  | Soturimary |
| re of it now. |  |  |
| his death will ever make it | And little Jack newor knew why | liursal entarkement : wncorrhaw |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

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## chronic Laminitis.

Mare has trouble, in rising, and she is very stim in all legs. Sho continually taps the floor with, one or, other of her
fore legs. Atter she has boen moving a time the stifinoss disappears, only to re $\underset{\substack{\text { appear after rest. } \\ \text { Ans. - She has chronic laminitis. (forund }}}{\text { P. C. Lef. }}$ er). Remove her shoes, blister all her
coronets, with 2 drams each, hiniodide of mercury and cantharides, niixed with 2 ozs. vaseline ; clip hair of, rab blister
well in. Tie so that she cannot bite the parts. In 24 hours rubb well again with the hlister, and in 24 hours Itenger
wash off and apply sweet oil. Turn her wash off and apply sweet oil. Turn her
on soft, damp pasture now, and oil every day. In two weeks blister again, and months. It is is possible even this will
not effect not elfect a perfect cure, but it wi
materially benefit her.


A. ${ }^{\text {B. Pootren, Maplo Leat Farm, Montromery, }}$
 Winera, 83 per setiting of 15 .


 $\mathrm{E}^{\text {LTON \& }}$ \&ATT, breedero of pure blood Horet red

 $\mathrm{G}^{\text {ORrELL }}$ Beos, Pliot Mound, Man. Short. H. Rookre Winnerr. .
 J. W. MaRTEN, Gotham, Wife U. S. A. -Impor-


 book brexes.
Jo in wish art, Portag la Prairio, Man. - Breed.
 J. M. MACFARLANE, Moose
J. Children esons. Oktotoks, Alta,-Duroo
 Jom
LAKE AELLSON, Grenfell, A8sa-- Breadere of




 woo a pair of bull calvee,




 residenoe.


 $T_{\substack{\text { Hos. } \\ \text { Heretorda. }}}^{\text {ELT, Regina, Asea, -Breder ot }}$





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ng the world even the smallest fragments of divine beauty.-[Woman's Lille.


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can be depended upon.
If the eggs that go they will hatch as surely as the sun rises. Simplicity of working parts makes the Chatham
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| Chatham, Ontari 2 |
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plentry of oustomers by ueging our advertising
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and year's turkers and chickens the thiter
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Set all the eegs you can when the price for
them in low them is lowe You ought thr raise four chicke,
surely romeach dozen, which, in four month'
time, will bring you in \$5, and with the ahund Ime, will bring you in Sh, and with wath gast you
ance of wou have will coin
nothing but your time to lonk after. Ascertain who is our agent for your territory, and let him
know how many he may expect to c et. We knowt how eanh alf million birds Who will
want at leat hat a
help supply them? Wi hilg you all good luck help supply themy
in your efforts. Yours rincerely, Mond
E. C. TINLING, Manager.
 drop-head bewing machine, sell and oume ouak
woodwork, for $\$ 17.50$ : a better machipe, same pattern, guaranteed for 20 years, selis for
881.5 ; machines with ball bearigi and extra
\$ñ XIne woodwork, cost a little more, but onty
about hall what othere charge. iou bewing
machine caiaiogue, fuliy explaining our about hale what others charge our sewing
manchine catiogue. funty explaining our
different styles, reee. Write for it. Windsor
wallage's dispersion sale. The dispersion sale of Shorthoras of Mr. T. E. Wallace, Portage la Prairie,
on June 14 th, was quite auccesful, despite the disagreeablo weather and dubout 30 head altogether in the sale, and all were in good thriving condition. The females made an average of \$187, and the bulls average of par head, or a grand The list of purch
lowe : Maiden's Blush. J. J. Smith, Hartney. $\$ 195$; Vanilla Second, J. Q. Barron, s100: Vanilla of Ellersile, ©. W. Bray, 8115 ; Maiden of Ellerslle, w.
B. Young, $\$ 140$; Vanille Third D. Mc. Bicar, 8210 ; Portage
viche
Blosoom, Jamee \& Sons. $\$ 140$ : Vanille Fourth, D. Mc Vicar. 8100 ; Gem of Lakeside, 1 C. Barron, 8140 V Vanila Fhith, W. W. 1toon: Maiden's Benuty W. James Sons, 8185 ; Vanilla Sixth, W. Jumee \& Sons, $8110 ;$ Maiden Fourth, Jas. Rray,
s190: Vanill Soventh M, \$190; Vanille Soventh, M. Casky, 8110 ;
Maiden Rose, S. Benson, saon , Vanille Maiden Rose E. Casky, 885 ; Bland Lidy. J. Ferris, $\$ 70$ and Maiden Sixth, D. McVicar, 876 . Bulls.-Portage Lad, W. G. Styes,
\$125: Sir William, H. Paul, 875 . Lake si25; Sir Wilikam, H. Paul, 875 ; Lak
side Lad, A. Kitson. 855 . Sailo Boy H. Brydcon. \$60; Royal Fame, H. Clark, Brydcan. $\$ 80$; Royal Fame, H. Clar
$\$ 90:$ Edward's Fame, T. Ward, $\$ 75$.

## TRADE NOTE.

Do your own threshing.-It is a great point to be able to thresh from
the shock. It saves grain and saves handling. This sivesumficient to ncoount Ior the growing popularity of the small or individual Lhresher, as ayan
job threshing outfit, with ite long tratn of helpers to be housed and fetl. Another point that argues strongly with all farmers who own small threshers is
the matter of thee. They threab when they of ready, whonever the jush i. just riqht, whem the weather is in ine Their neighbors must wait until the Ur reshing outal comes their way, and go into mer theso reasons theral is a constantly widening field for tho excellent stall threshers manufactured by the Belle City Mfg. Coo., of Racine Junc dion. No. Whis ine of machinery han any words of commendation. Individual iarmers or neighborhoods wanting to avall themselves of such advantages and
such machinery can not do better that to get in touch with the Delle City people. An advertisement will be fourct in this issue of our paper. A letter or
inquiry to the company will bring. inquiry to the company will
catalogue and all particulars.

The enings you do because sunebody y made your own, or they will make a

Attermpts at carrying water on both
shoulders are apt to leud to getting a ,ouse in the neck.



Lost, Strayed or Stolen.




 ${ }^{\text {LOst. }}$
RED WILLOW, Alta.-Strayed from the Northern Star Rancll, Sullivan Iake, one buckskin pony, branded star over
erescent, and oA, both on lett shoulder, also two mares, one dark and one light bay, both branded star over crescent, on
left shoulder. Janues Bros left shoulder. Jacques Bros. Mayton, Alta-Strayed or stolen, probably stolen, brandece Do (chece, balkerly, tert shoulder, ND l left thigh ; one black
mare. two vurs old mare, tevo years old, spot on foretenead
one yearing stud, black, with stripe in tace; one brown yearling mare. Bene dict Bros.
Strayed from the premises of Frank E
Adans Dratyme Adans, Dalrymple, Assa., since about
March 6 th, 1905, , black
horse, seven March 6 th, 1905 , black horse, seven
years old, orranded $P$ on thigh, und $1 \%$ on shoulder, scar from barbwire cul across rront of Teit hock, is also lightly
foundered, about 1 ten Loundered, about 1,200 pounds. Pive
dollars reward offered for intormation dolaras
leading to rowro ocovery.
Sitrayed from premises of Joseph
 shoulder, was clipped, and hasan marks of halter aeross the nose, black mane and
tuil.
Bucksskin stallion, ono year old. Was cipped barak strip on back frow
mane and tall, teve white hairs on face
hand
 strayed from remenises of P. ©. Ander
son


 years old, branded $Z T$ on right shoulder
and $L$ on
right $h i$ n



 White, collar mark on top of shoulder.
Brown mare, , low and heany set, white
 Strayed from premises of Sipastian
Hanowski (N. W. $12-20-42 \quad 7 \mathrm{w}$ 2),
Meriahilf, Meriahilf, Golaley, Assa., since June 10,
1905, mare branded 44 on right bind feet white. Strayed from premises of George Mc-
Michael $(17-17-18$ w 2$)$, South Qu'Appelle, Assa., sixteen months ago, bay
Clyde mare, about 1,500 pound Clyde mare, about 1,500 pounds, stripe
down face, small white hatter mark behind one ear, branded indistinct star on
left shoulder.
One hundred dollars reward will be paid for information leading
to the recovery or the above Black Sheclandy pony, mare, branded
quarter circle quarter circle over, on reght hip, Re-
ward will be paid for information leading to the recovery of this nnimnl.
Strayed Strayed from premises of J.M. Mc-
Donald, Grenfell, Assa., strawberry geld-
ing, four years old., right hip. years old, branded M M on on
Branded Belding, four years old, feet white. Brown hip, one or both hind
fears old, ber ging, driver. years old, barbewn gelding, driver, two
fetlock or heel. Strayed from premises of J. A. Gouin
$(34-14-11 \mathrm{w}$ $\left(\begin{array}{l}\text { (34-14-11 w } 2) \text {. Mont martre, Wolseley, } \\ \text { Assa.: since April } 15,1905, \text { team of } \\ \text { sorrel } \\ \text { bronchos, well }\end{array}\right.$ each about 1,000 pounds, hranded Jivers,
quarter circle over, on ripher quarter circle over, on right shoulder,
and $V$. bar under, U under, on left hip
Strayed from premisec Serg, Stockholm. Aremises of H. Asa., since May Mran- 15 , 1915, team of black ponies, horse and
mare, branded wine cup on left hip mat
slikhtly bigger has
 revirtitle whill he on paid for information dollars
read-
ing to the recovery of the above animals.
(Continut

## CHAMPION

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BRITAIN'S BEST BLISTER - It takes time, trouble, knowledge and
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direot to Martin, Bole \& Wynne, Winnipeg, Man.

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WE CAN SELL THAT FARM FOR YOU A small advertisement in our "Wy that ANands of peorle
SALE" column will be read hy thour throughout Canada and other parts of the world.
Full particulars and terms under "Want and For Full particulars and terms under ${ }_{\text {Sale }}$ heading in this issue. Address :
THE FARMER'S ADVOCATE AND HOME MAGAZINE, WINNIPEG

Lost, Strayed or Stolen-Cont.
Strayed from premises of F. Leippi Strayed from premises of F . Leippi (20
$-15-17 \mathrm{w}$
W),
Kronau,
Assa.,
Mince
 white spots on sides; two-vear old
gray mare, white spots on sides Strayed from premises of $\mathrm{J}, \mathrm{W}$. Crowe
$(22-20-18 \mathrm{w}$
$2)$. Avonhrst. An since the beginning of the present year,
dark bay borse, four years old, small
dar on both forehead, hollow back, gray hair
orray hairs
hiders cuused by collar, gray hairs in mane and butt of tail.
Ten dollars reward for information lead-
Ten ing to the recovery of the above animal.
Strayed from premises of Jone Strayed from premises of James Hawes,
Pilote Butte, Asse.. strawberry roan pony
mare. branded N on left shoulder dollars reward will be pird for informe
tion leading to thre recovery of the above tion leading to the recovery of the above
animal.
Streyed
Stron
 black colt, two years old, branded $2 \times$,
bar under, on right hip; light bay Clyde mare, four years old, heavy mane and
tail, white stripe down face (turning on
 lars reward for recovery.
strayed from premises Suchan, Tyvan, Assa.. since May 26 ,
1905, bay mare, white strine down four years old, left hnd leg thick.
Suitable reward will be paid for infornaSuitable reward will be paid for inforna-
tion leading to the recovery of the above
animal. ANTHER, Asea. - Strayed
premises of James the the premises of James Rutherford (10-8-80
wat on May 27 the, black and gray meree,
halters on, weight 1,100 lobs.
Owner must prove property and pay expenses. LAUDER, Man. - Strayed to the
premises of Jas. Ramsay $(16-5-25)$ five premises of Jas. Ramsey (18-5-25) five
head of horses, branded $K$ on left hip.
On promses of Friect Buscho ( $84-4-6$
 white about goo pounds,
brand ondistinct On premises of Mike Buscho (34-4-6 brown spots, 900 pounds,
brand brand on left shoulder.
on premises of G. H. Bradshaw ( $36-$
 mare, about 1,200 pounds, small white
sindp on nose, branded halt diamond, over
and anchor, on left stifle. On premises of T. E. Kells (14-28$21{ }^{21}{ }^{2}$ 2). Strassburg, Assa... bay mare.
in foal, branded (flesign not given). $\mathrm{O}_{\mathrm{n}}$ premises of Angus Stewart (17-
$20-14 \mathrm{w} 2)$, Springlirools Assa., bay filly, two years old, no visible

 ing, white stripe down forehead, left fore
foot white with ringbone on same foot white with ringbone on same,
branded indistinctly
$\mathrm{V} J \mathrm{~J}$
on left shoulder, Sranded indistinctly $V$ on left shoulder,
welght about 1,200 pounds On premises of P. O. Berg (32-24-26
w 2), Craik, Assa., roan horse branded H F, monogram : black horse, branded On prompose of Matt Polreis (4-37-22
w 2), Muenster. Sask. dark brown pony mare, four years old, whito face, right front foot and left hind
foot white, no brand. On premises of w. C .
 1905. dark bay mare, about eight years
oldi about 1, 300 pounds. small white
stripe down tace, little white mal stripe down face, little white on left hind
toot. wire cut on front leg, of right hind. no brand, heavy mane and tail.
on premises of William B. Radford (N.
 ${ }^{\text {anden }}$ about four or five years old, brand resembling S , with quarter clrcle through,
with another letter (indistinct), on left hip. ${ }_{\text {On premises of W. L. Thompson, Spring }}$ On premises of W. L. Thompson, Spring
Coultee, Alva.. bay gelding, 1,200 pounds,
branded 7 V , continatlo branded 7 V , cointinatlon, on lept thinhh.
On premises of Harry Sayers ( $36-18-$
7 , in foal, aged, hind feet white.
 1905. cream mare, three years, old, black
mane and tail, 1,oo pounds, branded
O N E on right front shoulder.

Tuttle's Elixir $\$ 100.00$ REWARD.
 cures all species of lameness, cords, thriush, etc., in horses. Equally yood for internal
use in colic, d disem use in colic, distemper, Joonn-
der, pneumonia, etc. Satisfaction guaranteed or money by funded. Usedand amondorsed
Express Company by Adams Exxress Company
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 LVMant they ofrer only temporny reliet it it
 AnInflamed Tendon ABSORBINE




 OR SALE: The Clydostalo Stallion Four yeara



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CANADIAN AIRMOTORS, 12 ft, $13 \mathrm{ft}, 14$ Bewow wit. eize8.

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ogan \& Henry Ave. WINNIPEG.
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AND GET BEST RESULTB In answering any advertisement on this page, kindly mention the FARMER'S ADVOCATE.

## Make More Milk Money.

If you knew a way by which you could double your profits from your milch cows and at the same time save yourself a H-1 Cream Empire Separator
will do that thing for you. We want to show you hiow and why order; turns easily; skims perfectly; is easily cleaned; is absolutely
safe ; lasts longer ; safe; lasts longer; gives better satiofaction and makes more money No separator has ever made such a record in poll and so simply built. man who buys it is satisfied. May our agent call and show you how it ever SRND FOR CATALOGUR you have investigated the Empire
Emplre Cream Separator Co of Catagae. Ask for book No. 1 ,
Emplre Cream Separator Co. of Canada, Ltd., Toronto, Ont.
ontario Wind Engine © Pump Co., Winnipeg, Manitoba.


## THE SPICE OF LIFE.

 Have you an acquaintance who is al-waym saying the unfortunate thing and making people feel like shunning him? Most of us have, but instead of having
an I-am-holier-than-thou feeling toward an 1 -am-holier-than-thon feeling toward
such a person, isn't here a chance to get
in a little of that charity we all like to No man over $\Sigma 0$ should ma
who isn't a good nurse.
A man's mental balance
Marriage of two balance. der them unspeakably happy. when a man's feelings are harrowed. always reads it on the street. Men bet on horses, but horses neven bet on men. Horses have horse sense with a female cynic it's heart trouble At least half the people who go to law
are fully convinced that justice is blind An exclamation of joy comes 4th when mother discovers her bath's 1st 2 th
Every time a very young man's liver gets to acting up he imagines he's in
ove.
If you would be a social favorite study
your own faults more and other people's A married man never fails to get his
vife's undivided attention when he talks Young man. don't get discouraged if our best girl treats you like a dog.
erhaps she likes dogs. Honest, now, does"t it tickle you to
ane other men try on sour hat and fon
$\qquad$
$\qquad$
$\qquad$
$\qquad$ ic know the grent gomel Dould's Kidn




Why He Pins His Faith to Dodd's Kidney Pills.
Worn Out with Ohrontc Kldaey DiseasesThe Great Canadlan Kiduey
Banished $\mathbf{B l a}$ P Palus.
July 3. (Special.)-Calixte
P... one of the most highly-
$\qquad$
$\qquad$
$\qquad$


## Lost, Strayed or Stolen-Cont.

 On , premises of George C. Petterson.J. P. ( $4-25-14 \mathrm{w}$ 2), Headllands, Assa.
since November, 1904, large red cow. since November, 1904, large red cow,
about six yyars, calved this spring, no
visible brand ; also red heifer, with no visible brand.
On premises of J. A. Lenzen (N. E. 36
$-24-26$ wis. $-24-2$ w 3), Girvin, Assa.. since June
1,1905 , black horse, about five years old, , brand resembling shamrock on left
shoulder, bad tors. shoulder, bad barb-wire cut on left leg
near joint, newly done ; black mare, about four years old, brand resembling
shamrock barb white on left shoulder, very faint
white strip on forehead, small white spot white strip on forehead, small white spot
near center of back. Both these horses near center of back. Both these horses
have heavy mane and tail; animals weigh about 1,000 to 1,200 pounds.
On premises of S. C., Cressman (24-
$30-2(\mathrm{w} 5)$, Carstairs, Alta., cow with white face, calf at foot, branded three
circles on right hip, has mark on lower circles on right hip, has mark on lower
part of the jaw. Been on above premises
since last year. On premises or Albert Watts (S. E. 6-
$48-25 \mathrm{w} 4$ ), Millet, Alta., since about May 30, 1905, black mare, nine years
old, weight 1,000 pounds, branded on
low old, weight 1,000 pounds, branded on
lower part of right front shoulder C
D
D ; sorrel mare, 1,100 pounds, white both flanks, three years old, no brand, has
halter on; dark bay mare, three years old, 1,200 pourds, no brand visible, has
halter and bell on. $\quad \begin{gathered}\text { On premises of Jackep Jowske ( } \\ 4 \mathrm{w} \\ 2)\end{gathered}$, Weyburn, Assa., $\quad$ bay mare, 1,400 pounds, has halter on; white mare,
1,450 pounds, has halter on On premises of Francis Stewart ( $24-38$
$-24 \mathrm{w} 4)$, Bullocksville -24 w 4), Bullocksville, Alta., dark bay
cayuse gelding, four years old, no brand,
white feet
On premises of Jay Baker (16-40-23
w 4), Bullocksville, Haynes, Alta., buckw 4), Bullocksville, Haynes, Alta., buck-
skin mare, agerd, 850 pounds, branded
125, 30,90 , lazy B on right hip On premises of Fllipp Steflen (S. E.
$30-22-6 \mathrm{w}$ 2), Pearl Park, Assan mare, white on face, seven or eight years
old, weight about 1,000 pounds, brand
rese, resembling L D, monogram, on left lump on hock, long tall. w 2), Fremises of R. G. Keys (9-18-23
(9ssa., since about April 20, 1905 , roan pony mare, white dash on
face. hind feet white. On premises of James Booth (2-23-
12 w
$2)$, Balcarres. Assia. 1905, rell and white yearling heifer, no
brand.
On premises of John Thompson (21-
$3-31$ w 1 ). Carlevole $3-31$ w 1), Carlevale, Assa.. since May
$15 . \quad 1905$, iron-gray filly, about three
years years old, branded T on left shoulder
hind feet white.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
25 wremises of O. J. Rallis $\left.\begin{array}{l}(24-31 \\ 25 \\ \text { w }\end{array}\right)$ Sunnyslope, Alta., two bay mares, branded K I I P on left shoulder
one has stripe down face, and halter on

$\qquad$ On promises of Joseph Savery ( $6-\varepsilon-6$
2, Fstevan. Assa, since about April
1905 , bay colt, white star on forehead On premises of william it miller (10

$\qquad$
$\qquad$
$\qquad$
$\qquad$ Have you a Backache? If you have it is the first sign that the kidneys are not working properly.
A neglected Backache leads to serious
Check it in time by taking
DOAN'S RIDNEY PILLS
They cure all kinds of Kidney Trouble from Backache to Bright's Disease.

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good ones for sale, and the price is right. H. V. CLENDENNING, Bradwardine, Man HERD OF
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 Pricear reitionabable home-bred cown
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## BARGAINS IN SHORTHORNS

Nobleman (Imp.), a Winnipeg winner, of Nonpareil breeding,
and Pilgrim (Imp.), a massive, smooth, red bull : also Nonand Pilgrim (Imp.), a massive, smooth, red bull ; also Nonpareil Prince, a straight Nonpareil two-year-old, winner of ther winner this year, along with

## FIFTEEN YOUNGER BULLS

fit for service, is JOHN G. BARRON'S present offering for and cows at rock-bottom prices.
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## KILDONAN, MANITOBA

Having sold my farm, must sell at once all my prize stock, consisting of CLYDESDALES, THOROUGHBREDS and HACKNEYS, SHORTHORNS, GOLDEN WYANDOTTES, INDIAN RUNNER DUCKS, stc. Among the Clydesdales is the imported 3-yead-old stallion Cadet, one of the best ever im
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 champion of America; 6 y yearling heifers and two balls.
End of St. Ry., ST. JOHN's, WINNIPEG. J. A. MITCHELL


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## Shorthorns

Comprising five fe fit for service, from 14 to 24 months old. Four

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YORESHIRES and B. P. ROCKS.
 Herd hoeded by Royal Macgregor,
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P. TALBOT \& SOllS, - Lacomblo, Alla


$=-$ bom yoilligg
 SCOTCH SHORTHORIS
Mombor of thil herd mon the two grand
 In altoo thill


Shorthorn Bulls, Heifers and Heifer Calves for Sale. The get of Sir Co1in Campbell (imp.)-28878-
and General - 30399 - Cows all ages, in call or calr at foot. Seventy head to ohoose from.
Three Olydesdale 8 Bllliont two and three
 Geo, Rankin \& Sons, Hamlota, Man. Drumrossle Shorthorns-"Drumroesie Chier" Cher"= anco6= at head of herd. Young thing

BERKSHIIRES
H. M. VANDERLIIP, Cainsville on T. H. \& B. and B. \& G. division of Grand
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inary Medicine. Post-graduate Course, acquiring the Degree of Dootor of Veter Meat Inspection Course, preparatory to the Civil Service Kxamina-
tion for Governi ent inspectors. Speeial attention is given this course in order toprepare the student for the Civil service Kxamination.
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colle as a sheep dip it cures scabs. eutionton FREE


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Or Want a Situation putan Advertisement in our
WANT AND FOR SALB COLUMN. Our Want Ads. Always Bring the Best Resulte.
The William Weld Co., Limited, Winnipeg, Man.

Good Health and Success young: small black mare, white star on orehead ; bay horse, aged; light bay
horse horse, small white stripe down face, white
hind stockings : bay mare, aged ; black hind stockings : bay mare, aged ; black
mare, aged, indistinct obrand on left
shoulder ; gray horse, five years old ;
隹 bay horse, three years old , black horse
three years old, face and hind feet white, white spots on Alanks.
On premises of Thos. Ellis ( $17-17-9$
w 2), Wolseley, Assa., bay mare, star on forehead, left hind foot white, branded E on lelt shoulder, rather old: tay
stallion, one year old, not branded, by said mare: roan horse, smalt star on
forehead, branded $G$ on left shoulder forehead, branded $G$ on left shoulder,
some white on left hind toot some white on left hind loot, about nine
years ohd.
 bull, about a quarter Hereford, one and a
half years old white half years old, white face, no brand or
marks.
 bay gelding, seven years old, brandea $R$ head, about 1,200 pounds, white on hind legs, apparently has
disease, also distemper
On premises of Clayton W. Husk (N
W.
$6-9-33$ w 1 ), Cannington Manor Assa., redtroan buli, one year old, few
white spots
On premises of John Hubernick (N. E.
 mare, three years old.
 about 1,200 pounds. has been worked
lately, no brand visible. On premises of John S. Lytle (14-17-
$18 \mathrm{w} 2)$, Pilot Butre, Assa., bay mare. betwen 700 and 800 pounds, white star
on forenead, about ntine years old, white
spot on nose tront
 thigh, pinto horse, between 700 and right
pounds, about seven years old: oneven


 two years old, sapella, Assa., bay stallich on . .ace, hind fee
white.

 shoulder: $\begin{aligned} & \text { Quarter circle over 4, on left } \\ & \text { about seven yeare (tinge of }\end{aligned}$ dout seven years old, mange of aray)
dark gray, brarded F , mand
monagra tail Left shoulder, wearing halter monogram, of
On premises of L . W. Grifinn

 shoulder, halter on, little white on left
hirid foot hoo trand.
On premises of Gilasqua winter
 indistinct brand respmbling running
on telt shoulder, hanter ong







D. Chase's

Red blood means health, strength, and a well-nourished brain that likes to accomp secret things
the blood, for with is, after all, in the blood, for with an abundance of
rich, red blood the nervous system is
nourishd and sustained, the lungs, nourishcd and sustained, the lungs, heart, stomach, liver and kidneys are filled with the vigor and energy neces-
sary to accomplish there is no room for weakness and disDr. Chase's Nerve Food builds
strangthens and inviroorates stringthens and invigorates the whole
human body, because it actually forms rich, red blood.
Indigestion, sleeploss nose ache, irritability, nervousness, lack energy and strength and failure of the
bodily organs to perform their functions bodily organs to perform their functions
are almost invariably the result of poor, weak, watery blood. completely overcomes these symptoms and by filling the whole system with new,
vigor gives new hope and confidence nnit replaces wives neak hope and confidence and
wise and disease with health and strength.
Dr. Chase's Nerve Food, 50 cents a
box, 6 boxes for $\$ 2.50$, at all dealers. box, 6 boxes for $\$ 2.50$, at all dealers,
or Edmanson, Bates \& Co., Torunto. Th portrait and signature of II.A. A. W.
Chase, the famous receipt book author,
 GREENWOOD, ONT.
offers the following:
imp. bulls, all registered in E. H. B.
high-class home-bred bulls, all by imp. sires,
and from imp. or pure Scotch cows.
imp. cows and heifers.
very fine heifers of our own breeding, by imp.
sires, and mostly from imp. dams.
om

## SHORTHORNS

Still have a few good young
bulls to offer. Also ceptionally good lot of heifers, among which there are show

CATALOGUE.
OARGILL \& BON, OARGILL, ONT.
JOHN OLANGY, MARARET.
Om

Nerve Food. ache, irritability, nervousness, lack of

nergy and strength and failure

and Success Biom in matr vuex ap

[^2]

JUNE $\cdot 28,1905$
THE FARMER'S ADVOCATE.

Can Eat Anything Now.

How many Dyspeptics can say that?
Or perhaps you are dyspeptic and don't know it

Have you any of these symptoms?

Yariable appetite, a faint gnawing feel ing at the pit of the stomach, unsatisfied bunger, a loathing of food, rising and bouring of food, a painful load at the pit of the stomach, constipation, or are you gloomy and miserable? Then you are a dyspeptic. The cure is careful diet; evoid stimulants and narcotics, do not drink at meals, keep regular habits, and BURDOCK BLOOD BITTERS
BURDOCK BLOOD BITTERS, Nature's specific for Dyspepsia. Miss Laura Chicoine, Belle Anse, Que., "Last winter Ierful curative powers :Last winter I was very thin, and was fast losing flesh owing to the run-down Dyspepsia loss of I I tried everything I could get, but to Burdock Blood Bitters. From the frst day I felt the good effect of the the first and am now feeling strong and well ana I can eat änything now without agy ill after-effectu. It gives me great plesaure to recommend Burdock Blood Bitters, for $\bar{d}$ feel it saved $\mathbf{m y}$ life.

\section*{(MAPLE SHADE

## (MAPLE SHADE <br> SHORTHORNS

 Three young bulls
Hit for service.
Showing Showing the fin.
est Cruickshank est Cruic
breeding. Good Size, Quality. Oatalogues Inspection

JOHN DRYDEN \& SOM, Brookillin P.O., Ont.
Sping Grove Stock Farm


 Bhorthonte of of
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ing Lincolne.
Apply
T. E. ROBSON, ILDERTON, ONT.

PINE GROVE STOCK FARM mookland, ONTARIO,
SCOTCH SHORTHORNW and SHROPSHIRES
W. C. EDWARDS \& CO., Lid., Props
Juseph w, barner, Minagor.
T. DOUGLAS \& SONS, SHORTHORNS and GLYDESDALES



## MIPLE LOOGE STOCK FIRIM

##  

## ouestions And Answers.

 Miscellaneous.belalan haress.
Would you kindly tell me where I could get some of the Belgian Leporide?
Ans.-E. H. Bean, Campden, Ont., and Hy. Troy, Campbellford, Ont., advertise
Belgian Leporide (hares) for sale. bresding mare with boa spavin. Would you considder a mare that had
been sound up to fifteen years of age, been sound up to fifteen years of age, or breeding purposes ? Would the spavin be likely to appear in her progeny?

Ans.-The fact that this mare developed serfous against her as a breeder. Should bogs or bone spavin develop in a young mare, it is an indication that she has a conformation that 1 p peculiarly suscep-
tilble to spavin, and would, in all probability, raise colts having the same predisposition. These diseases of themselves are not transmitted, but the conformation of the parts is more or less
hereditary and correspondingly liable to unsoundnesses.

OHIOKENS DYing For some time I had noticed my chickens looking sick, They would gape and appear dumpish. One day I killed discovered quite a large growth directly beside the crop, consisting of a hard yellow mattery substance. Likewise, the angs did not look natural, although they I noticed my chicks were not so bright as usual, and that same day othe died, and after that they kept dropping off they would gape and make. At times, though they were in pafni, end throw themselves backwards. Some of them oemed to have the diarrhcoa, and others hatched in an incubator The chicks were away from the rest of the flock. Now, could it be possifle that the chicks hard Asse disease as the fowls? Ans,- -1 do not know what the trouble is, unless it is tuberculosis. That is the
only disease that I am aware of that would create conditions similar to these. Poultry Dept ont . R. Graham. AGREBMENT UPON WAGES. farmer for seven months at stay with a month, and also he says he will give me board apd lodging through the winter. 1. Do you think this a fair wage fo the Old Country? 2. Can thie farme
vinter comes, if only verbally agreed? 3. What can I demand for second year'
wage ? Ans.-1. We are in no position to
nswer such a question. If a man in nswer such a question. If a man is
worth more than this, his work will speak for itself, and the neighbors or his but a stranger has always to prove his worth above a nominal wage.
2. It is always just as well to have a Written agreement, or witnesses to
verbal one; but, of course, if there is no mutual concord after a time the agreement might be cancelled by the employee
-pay wages pro rata. It would not be onducive to the welfare of either party rangements, and in such a case, the 3. If you think you are worth as much wage, hut do not lie idle, take the hest Witmer Stone, one of the heads of the Philadelphia Academy of Natural Sci ences, has gathered together what is birds in America. other day to a Pittsburg millionaire. There were thousands of lifelike feat here creatures, ranged in line on line of cases
and Mr. Stone could not help praisin hem with much ornithological warmth. "Yes," he ended, " this collection Collars."
"Is it possible ?" said the millionair "Is it possible ?" said the millionair
Why, what are they stufled with ?"

THE FARMER'S ADVOCATE
FOUNDED 1866

## for sale: 300 ACRES

FRASER RIVER VALLEY, BRITISH COLUMBIA,



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ALEXANDER BELL, Ellard Block, Columbia Street, New Westminster, B. C.



Varicocele=-Hydrogele
Gured to Stay Cured in 5 Days. No Cuttling or Palme. Guaranteed Gure or Monev Rof undood. WARICOCEIE Wnder my treatment this diseaso is permanently sured. HYDROCELE My treatment for Hydroelo and Ats ompltations ant



 ence Confidentlal Oommespondence Comfitiontial write mo your condilion fully and you will res H_ H. J. TLLLOTSON, M. D., 255 Tillotson Bullding, 84 Dearborn Street, CHICAGO.

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## REAL ESTATE

- Jin $E_{1}$ J, COLLISON, Didsbury, Alberta farm, ranch and town propbrty.
B. P. RICHARDSON barrister, golicitor
GRENFELL, - ASSA
LANDS FOR SALE.
Nolltor far tha "Fanmer's Advocabe " tor tho
Some one says: "There is a deal of antrsfaction in kiching about the weather,
and why not indulpe it? It costs nothin does no harm."
 ends to the habit of cannot be helper king instead of
doing something about what can be


[^0]:    obstacles likely to arise, but she credits the Canadian farmer with sufficient intelligence and deter mination to overcome them. Nor does she stop there; she sets forth in a very practical way how the farm separator should be used, and if er advice is faithruly carried out, we believe will add materially to the life and efficiency he separator on the farm, and also assist the produce a uniform product of excellent quality under the gathered-cream system.

[^1]:    23 answering any advertisement on this tage, kindly mention the FARMERC

[^2]:    $\qquad$

