## PAGES

MISSING

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## IDEAL FENCE





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## Che Persevere and <br> Farmer's Ydvocate

 succeed and Home MragazineEDITORIAL.
OUR GREAT FRESH - WATER OCEAN PORT. The Dominion of Canada has a national interest in the Port of Montreal. At its docks the arteries of water-borne and rail-carried commerce of the interior continent. In fact, it might be said that North America has a continental interest in this fresh-water ocean port-for, despite the apparent contradiction of the term it fairly describes the strategic situation of the great Lawrence city. From Montreal to the sea, by way of the St. Lawrence River, Canadian enterorise has established a channel, with an available depth of 30 feet, now actually in use by steamships of 12,000 tons. By 1910 it will accommodate ships of 18,000 tons. This gives to Canada a virtual seaport at Montreal, the head of ocean navigation, 1,000 miles from the sea, the junctionpoint of three transcontinental railways, and of a navigation system with a minimum depth o 14 feet tapping all the citics of the Great Lakes, clear into the heart of the continent. Prospects are that facilities will be vastly iinproved by the construction of a 22 -foot Georgian Bay Canal, and not unlikely, a new and deeper Welland Canal. In view of these tremendously important fact.s,
and especially the developments of the present seaand especially the developments of the present sea
son, during which American seaport cities have son, during which American seaport cities have
been alarmed by the rate at which Montreal has been alarmed by the rate at which Montreal has
been capturing the export grain trade, special in terest attaches to a recently-issued report on British and Continental ports, with a view to the
development of the Port of Montreal and Cana development of the Port of Montreal and Cana
dian transportation. This report, published as a supplement to the fortieth annual report of Marine and Fisheries, is prepared by Geo. W. Stephens President Harbor Commissioners, Montreal, and Frederick W. Cowie. B. A. Sc., M. Inst., C. E.,
Fngineer River St. Lawrence Ship Canal, who visited the different seaports of Europe and Grea Britain to personally inspect the various phases of port development and management, and to gather such information as might serve a useful purpose in the development of Canada's nationa ports. Their information has been published the presentation of facts quoted elsewhere with regard to our own port of Montreal. out of place by any means, is the emphasis in th foreword placed upon the supreme importance retaining the national waterway as the property of the Canadian people, not allowing it to come under the control of any navigating corporation been the case in the United States, where the rail ways have killed the efficiency of the Erle Canal by blocking legislation for where the inland waterways have largely England, where the inland waterways have largely been bough up in rairoce, where a like situaness confiscated; or in rance, Port of Marseille," tion exists with regard Hamburg, on the other histributes annually to inland eight $8,000,000$ tons of freight by the cheapest points, $8,000,0$ of transportation; and Antwerp with a canal and river system of the same depth, carries water-borne cargoes to the boundaries of Austria at the rate of something over $6,000,000$ tons per annum, and distributes annually, by means of her own waterways, $37,090,000$ tons of merchandise.

WHEN PURE-BREDS SHALL BECOME COMMON We look forward to the day, still well in the fature, when pure-bred stock will supplant scrubs, mongrels and, for the most part, grades. It may never entirely supplant straight cross-breds or high-grades, for a first cross often produces a most profitable animal to feed, and doubtless a certain amount of crossing and mingling of blood will always be done, but the stockmen s misshary wark must continue untir no one hans anity but a pure bree, and atere and of breeding ferrales in inst-crosses or swine are either pure-bred or has already been high-grades. In swine this goal has already been atta he sow . in sheep it is within measurable approach, but among horses and caitle it will be some time yet before pure-breds are so generally disseminated as they should be. When pure-breds become as common as grades now are, the tendency will be to reduce prices, though not the values, of the average run of pure-breds, thereby lessening the temptation to palm off inferior individuals on the strength of registration. Then, only those registered animals which combine superior individuality with rich breeding will command a premium by virtue of their pedigrees. The business of distributing seed stock will not be confined, as at present, to a few breeders, but every farmer will stand a chance of producing an animal of rare value for purposes of stock improvement. At present, with grades chiefly in vogue, no matter how superior an individual male animal may occur in a farm stud or herd, he is of litte value for stock improvement because lacking lue concentration of blood lines which tends to insure prepotency in the transmission of his good qualihies. Even if he prove an exceplionase gim since
 his get wourd roe be elg is which if a registered pura-bred, and, therefore available for the purnoses of the pure-breeder wald a cause of stock improvement and incidentally a source of profit to the farmer who raised him. The more plentiful the pure-breds in the country, the more rapidly and thoroughly may the cause of live-stock improvement advance. At present the number of pure-breds is so small, comparatively speaking, that the business of breeding them is inconvenient and expensive; and this, logether with the expense or blooded stock in almost every community tempts the breeder to distribute for breeding pur poses registered stock which never should be al lowed to perpetuate its kind. Among pure-breds as among scrubs, close culling will always be necessary to maintain, let alone to advance, the standard of merit; and the lact that this has not always been practiced accounts for the inferion showing, from a tiry solin tioner class or pure-areds ordes tical than arposes, a huri-bred, but a good pure-bred is better a medium pla in the descend an will have the prepotency to transmit their excellencies with greater certainty This fact of prepotency due a concentration of blood lines and tendencies, the sole and only reason why pure-breds are so necessary for improvement of the general stock of the country.
become uniformly distributed amony the rank and
file of farmers. Doubtless, in future, as in the past, the cause of stock improvement will be served by those few men of enterprise and genius who make it a point to assemble in their stablea some of the best stock of richest blood lines, and, by intelligent selection, skillful mating, and favorable environment, to produce masterpieces of the breeder's art, just as in swine we still have our noted breeders, notwithstanding the plenitude of pure-breds throughout the country. But, as in swine, so in other stock, the work of the leading breeders, while not less proftable to the country will be much more advantageous to the country when they can draw froly form herds upon the speciall a purehere and there among a large number or pung breds kept throughout the councll for breeding purwill no longer be thplediposes everything certin-

Of course, the student of this question must realize that one practical difficulty in the way of utilizing animals from commercial herds, oven though pure-bred, will be the fact that many stockmen, keeping pure-breds for every-day purposes, would refrain from recording their stock; so that, after several generations had passed without registration, it might be difficult, under existing herd and stud book rules, to enter ever so deserving a beast. This could and doubtless will be met in time by a judicious relaxation of rules to allow the inclusion of meritorious candidates of evidently pure-breeding. Even were a dilute strain of alien blood occasionally gltered in through such channels, it would doubtless do the breed more good than harm.
The scarcer the supply of desirable pure-bred stock, and the more narrowly its ownership is limited, the greater the cost of pure-bred sirs to the general farmer; whist, on more abundant the supply, the more genral the prought ly the breeding of pure-breacial basis, the higher down to an every-day coml be raised, the less will the standard of mendion, and consequently the be the cost selling price of serviceable we see that the general dissemination of pure-bred stock over the country promises sub-pure-bre betterment of live-stock interests, particularly to the dairyman and the raiser of market stock.

WISE AND UNWISE INVESTMENTS IN PUREBRED STOCK

BRED STOCK. Seeing that the premium in price ordinarily commanded by registered stock depends upon their accepted prepotency in the transmission of type and function, owing to the nxation of these char acteristics in themselves by reason of concentra tion of blood lines of ancestors in which the sald qualities have been developed, it follows that pure-bred is vallued not for its own mere velue but also with a its progeny, not only of the fre, quent generations. Her will depend upon what ing in a pure-bred an instance, a man use can be made of-priced registered female to be no a reed wisely A good grade would answer his purpose almost if not equally as well, and would cost him much less to buy. Folly of this kind runs its length when it leads, say, a dairyman to purchase length when Shorthorp or Aberdeen-Angus, at at and a pedigreed figore, and then breed it to a dairy:

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ANY(Lnatrid)
bull or a scrub, thereby forefeiting that part of the cow's value which represented her accumulated prepotency in the transmission of beefing merit,
for, while the first cross may be a fairy dividual, it will command no premium as a breeder. Equally foolish is it to mate a valu-Aberdeen-Angus bull; or, for the matter of that, a Shorthorn cow with an Angus unloss there some specific purpose in view, such as experimentation, or, perchance, the production of a prizewinthat, when a pure-bred is mated with any sire but a pure-bred of its own breed, its prepotency is
broken up and nullified, so far as the progeny of that mating is concerned. The resulting calf or the grand ultimate purpose of stock improvement. long price for a pure-bred female unless one can same breed.

Less foolish, though nevertheless unwise, is to buy a top-notch sire to use on Lrathe fimates able," is sound within reasonable limits, still it is service of a phenomenal sire, such, for instance, as Baron's Pride, to any except high-class pure-bred females; and an astute owner will place his serv-
ice fee so high that none but owners of purn bred females can afford to use him. It is generally un wise even for the brecder of registered stock to
invest in a world-beater. unloss he has a large use him and the skill to do it with judgment ant then make the most
While every breeder
of moderation. The
best pure-bred female
the general run of pure-bred females and for grade herds, is the principle that applies. estment is for unwise investments. A wise in has proven himself a discriminating, observant and successful herdsman with grades, adds to his stock one or more good registered females of the breed which he prefers, and then, by occasional purchase and persistent use of a first-class bull, works gradually into pure-breds, keeping his operations down to a strict commercial basis, and sending to the block all indivauas which do not measure up to a goodly standard of profit. Such a farmer and his annual sales of milk or market stock, as the case may be, will be substantially supple mented by the returns from a selected quota voung pure-bred stock, sold for a neat figure to some enterprising breeder, or to spread the work of stock improvement in a neighbor's herd, stud or flock.

ONLY ONE DEGREE OF MURDER
As if the Thaw case were not a sufficient dis-
grace to American criminal law and jurisprudence, grace to American criminal law and jurisprudence we have now promise of a similar fiasco in the instance of his elder brother, deliberatoly, at the cold blood before a crowd of people icludint, in fictim's wife and familv, a nublisher named annis who was alleged by the instigator to have been mproperly familiar with the junior Hains wife The elder Hains was implicated, not only as stigator, but in that he accompanied the murderer on his deed of death, and, at the muzzle of a It was hoped that this crime would be dealt with summarily, and without legal and medical chicanery, but, according to later reports, seems that the defence bids fair to parallel the inamous Thaw case, in which lashions of money were expended on conflicting "expert" evidence mitting the act : on all kinds of moment of comand subterfuges, and all kinds of technical appeals argument. If certain despatches may be re lied upon, the counsel of the Hains brother wee attempt to prove that the murderer was afficted with that alleged mental state notoriously known deavor to have the prisoner judged insane, al then, afterwards, on some pretext or other, and have him discharged from the asylum as cured.
Failing in this, they will seek to secure a verdict of murder in some other than the first degrec,
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$\qquad$ of mind which could lead a man to take the la punishment on the strength of susnicionete out even the opportunity of trial or defence, we need
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$\qquad$ prisonment are, or should be, regarded as in no
sense retributive, but wholly deterrent. Societ has no husiness to usurp the functions of Provi-
dence or Destiny by PriNisulac
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$\qquad$ is intended to restrain those whose ethical stand
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far as insanity is concerned, it is doubtful whether any man is perfectly sane. Streaks of insanir which is to say, mental bias or abnormality ist in practically if not all of us in either mild of violent form, and no expert can accurately juage the degree in any given person.
cede, therefore, that insanity is a reason for mitigating punishment, is to invite the break-down of caping loophole for murderers rich eopen prove themselves insane. rove themselves insane
Under the British system, we do not go the length of our American kinsmen in extenuating
crime on the plea of insanity. With is supposed to be convicted, unless it a man
reason was so far dethroned that he was not a ware of the fact that he was committing a crime. Even this, however, renders it necessary to draw a line between stark and partial insanity, and resolves the decision, after all, into a mere matter
The fact of the matter is that people of unsound mind require, especially, the prospect of severe and certain punishment to restrain their therwise unbridled passions. The fact that a sanity or partial justification is the plea of inment for men of the Hains type to emulate such as Thaw. Moreover, the more insane and such snonsible a murderer is the less the loss and ciety-if the death of any murderer can be called inflicting the greater the reason, therefore, for not safe, and their lives are of little or no use to themselves or to others. The more we examine this whole question, the more strongly are we driven to the conclusion that there is only one degree of murder, that everyone is virtually guilty of it who attempts to kill, and that the welfare of society demands that the full rigor of the law, either capital punishment or life-imprisho administered in labor, preferably the former, understanding more certain and system would make justice far ly contribute to the safety of human and immense

THE FARMER'S ADVOCATE"' AT THE FAIR

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& \text { THE FARMER'S ADVOCATE "' AT THE FAIR. } \\
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staff at all the leading exhibitions this fall andwinter. A feature of this paper for years hasveen the reliable, incisive and illuminating re-general agricultural features of all the important
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$\qquad$ have attended may find in the subsequent report explanation of much that was puzzling, and ampler mormation about animals and produce than a eflection, either, on the general run of exhibitors and judges to assert that the close, critical review of the judges' work is an influence tending mahibition without the attendance of the agricultural press would lose much of its educational value In addition to their editorial and reportorial
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on. Toronto: while at the Western Fair, in London, visitors will readily find our location among the press booths. At Ottawa, Halifax, St. John,
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$\qquad$ rings and about the grounds. We regret that the extent of our field forbids attempt to cover these would quite congest our columns, to the of hese would quite congest our columns, to the ex-
lusion of all other matter, for weeks and months. The reading public are especially invited to make themselves at home in our tent at Toronto. A call and chat with our representative there, an
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MONTREAL HARBOR AND THE ST. LAWRENCE WATERWAY
The first attempt to make a harbor for ocean The Canadian inland canal system, connecting the Great Lakes of the Central part of the North American Continent with the St. Lawrence at
Montreal, had just been opened. The physical features of the locality, the trade situation, and the position as a point of interchange between ocean and inland vessels, was recognized. Lachine and other rapids. manufacturing center, and the situation for ware13 houses and works was excellent. Lawrence, with its clean water and permanent river-bed, passing through Lake St. Peter, and on 160 miles to Quebec, and 800 miles further to the Atlantic.
Navigation to Quebec was an accomplished Navigation to Quebec was an accomplished
fact for all classes of ocean vessels, but Lake St. fact for alf classes of ocean vessels, but Lake St.
Peter, half way up to Montreal, had only a depth' of 10 feet. THE SHIP CIIANNEL.

Commencing modestly, as it would be consider ed at the present time, but on right lines, the
Montreal far-seeing business men undertook to construct a harbor and to deepen the channel in
Lake St. Peter. Lake St. Peter.
Their lessons were gained from the successes in taking ocean navigation up the Clyde, which had been a shallow stream, to Glasgow.
Dredging on the st. Lawrence commenced in
1850. The plant had been designed, and the ma1850. The plant had been designed, and the ma chinery made in Scotland.
From 10 feet, in 1850, the channel had been From 10 feet, in 1850, the channel had been water, over a length of river requiring dredging of about 50 miles, the work being carried on de-
partmentally by the Harbor Commissioners of Montreal.
In 1888, the Government of Canada, recognizing the St. Lawrence as the national. route of Canada, assumed the debt incurred with respect shipping of the world. 1899 , undertock The Government, in 1899, undertook, as well,
the task of deepening the channel about 4 feet, to the task of deepening the channel about 40 feet, at the lowest stage of the river-level recorded, and of widening, straightening, and marking the channel with the most
modern systems of Aids to Navigation. In 1907 the channel was opened to commerce, ed depth that season being 31 feet 10 inches, and with a magnificent system of lights, buoys, signal service, and swept channel.
The standard curves are easy and the width ample, as compared with any other artificial navigable waterway of the world.
Montreal Harbor and the St. Lawrence has had
misfortunes are advertised. The facts and actual records show to the contrary, and the St. Law-
rence should be known as one of the most advantageous routes in the world. The St. Lawrence, with the whole of the Great Lakes navigation, amounting to $60,000,000$
tons per annum, is closed by ice from December tons per annum, is closed icy ice from December
1st to April 20th of each year. This situation is accepted on the Great Lakes, which are the feeders to the shipping of the St. Lawrence. When
the lakes are open, the ocean ships are in the the lakes are open, the ocean ships are in the
Montreal Harbor, ready for the trade. During the open season, the St. Lawrence has splendid weather conditions, and is notably adapted to navigation.
Fogs are very rare in the whole of the contracted part of the river, from Murray Bay, 235 miles below Montreal, right up to the Harbor. In 30 years, only two ships have been totally
lost between Quebec and Montreal. lost between Quebec and Montreal. not frequent. The report of 1906 stated that, between Montreal and Quebec, the loss due to navigation accidents did not amount to one thousand domars, tonnage of about $6,000,000$ tons, passed up and down during the seven months of open seaThe records of the accidents on the St. Lawrence give the causes about equally divided be-
tween faults due to the machinery of the ship an errors of the piiots. None of the accidents whatever in recent years have been due in any measure to
THE HARBOR
In the consideration of Montreal as a position for a great port, except for its winter season, it would be regarded as an ideal situation, accord-
ing to the best British and Continental practice ing to the best British and Continental practice. ocean navigation to go.
2. It has a splendid channel approach, and a dredging 'plant and organization for navigation at 3. The navigable conditions aro excellent. 4. It is on the direct line of the great summertrade route of North Americ a large section of the North American continent' most productive area. 6. It is a route which, with its up-to-the-present meager faclities, has w with Be Bute. 7. It is the eastern terminus
rence Canal System, giving 14 feet navigation from Montreal to Port Colborne. From Port Colborne the depth is 20 feet to Buffalo, Cleveland, Detroit,
Chicago, Sault Ste. Marie, Fort William and Duluth, a total distance of 1,400 miles. 8. Montreal is the railway center of Canada.
Trunk lines extend in every direction, and three Trunk lines extend in every direction, and thre
transcontinental lines reach ocean navigation in the harbor.
9. Physically, Montreal is favorable for the 10. The of a port stant dredging is not requirem sediment, and con11. The whole of the water-front and riverbed is controlled by the Port Authority. 12. The Harbor is in the heart of the business
section of the city. 13 The city.
the best The railway connections with the docks are 14. The great

Canada, both rail and water, have their headquarters at Montreal.
15. The trade by the St. Lawrence to Montreal is now nearly 30 per cent. of the total com-
merce of Canada, including the trade with the United States. 16. The present situation of Montreal, as regards the port, is as follows
Vessels per annum, inwards and outwards comInlad : Sea-going, 2,400; tonnage, 5,000,000 The capital expenditure on the port to date is approximately the amount of the bonded debt
viz., $\$ 10,000,000$ The depth of water in the harbor and its ap proach is 30 feet at lowest water, or 31 feet 10 inches at the lowest stage reached in 1907. in The total shed area is 20 acres, to be doubled
There are no tonnage dues on vessels.
The revenues are chiefly derived from wharfage rates on the goods and rentals of space.
Pilotage to the port is compulsory, and conPilotage to the port is compulsory, and con
trolled by the Government of Canada. The Port Authority is a Commission composed of three members appointed by the Government of Canada, subject to the approval, in the matters of expenditure, to the Minister of Marine and Fish Reference need only be made to the description of the eleven principal ports of Great Britain and
Europe, in the report, and a comparison with the Europe, in the report, and a comparison with the
physical, natural and trade advantages of Montreal, to complete the favorable decision regarding the future of the Port of Montreal, and of the necessity of taking immediate steps in a careful and com-

## THE OPTIONAL REFERENDUM

$\qquad$ "The Farmer's Advocate
Your recent editorial, dealing with the fallure one of the very simple political device known as the Optional Referendum, long in vogue in Switzerland, and rapidly gaining popularity in cities and States of the American Union. I have been advocating this reform for a number of years, but
people move very slowly, and probably a number of cases like that in Hamilton will have to occur

before the majority will awake to their necessities and look about for a remedy.
The Optional Referendum is simply this : Conurgency measures, shall remain inoperative for certain specified period, during which a certain percentage of the electorate, by petition, has the right to compel a referendum thereon. We have
the obligatory referendum now in respect to municipal money by-laws, and the option of its use lies with all legislatures and councils at any time. But the people should be given the option of using it, because it is just when the council or
legislature will not use it that it is highly neces sary ; that is, when doubtful or suspicious legis lation is under consideration. $\Lambda \mathrm{s}$ a means o checking unwise, hasty or unpatriotic legislation
the Optional Referendum in unequalled. Why it is not more widely known, discussed and cated, I have never been able to understand, for it is both extremely simple and also highly effhcient, according to the testimony of those who The
in which "responsible civic administration has failed through the duplicity of elected representatives," and your demand for "some means that
will render such eventuality impossible in future finds immediate and satisfactory answer in th
Optional Referendum. ptional Referendum.

## HORSES.

## SOME HACKNEY REMINISCENCES

It seems to me I have loved a good horse eve since I knew enough to know what a horse was
and, of all breeds of horses, the Hackney has al ways been my favorite.
The first stallion that made a deep and lasting impression on me was Beal's Sir Charles (768), remarkable horse in his day, and one that has left
his mark on most of the celebrated Hackney sires of the present time through his son Denmark (177), and grandsons, Connaught (1453) and Danegelt (174); and great-grandsons, Rosador I well remember a cousin of my father's for years riding consecutively a daughter and a son of old Sir Charles, both strawberry roans, of exception ally high quality and phenomenal action. Man
is the time I have watched the old gentleman from behind the hedge of our feeding pasture. whit adjoined his farm, " nagging" one or other of these beautiful horses, and it seems to me I have high-stepper. He never would allow anyone else to ride either one, nor would he ever allow his riding horse to be put in harness. He sold both for very high prices, and one (the gelding) was after-
wards resold to the Duke of Cambridge, and used by him when Commander-in-Chief of the British Army. How I became so fond of old Sir Charles was through visiting a cousin of my mother's,
who lived near to Richard Beal, and was at that time much interested in his sister, and nothing delighted me, as a boy, so much as to go over to "Galley Gap" with him and get a look at the old horse, and sometimes have the privilege of
seeing him go. I was then so firmly convinced that Sir Charles was an extraordinary horse that I would beg my father to allow me to take his riding mare (a Hackney, by Tom Thumb (830 of our home) to be bred to old Sir Charles. can distinctly call to mind his quizzical expressio
when he asked me what I knew of such thingo when he asked me what I knew of such things.
My own opinion is, and always has been, that My own opinion is, and always has been, that
old Sir Charles is due as much credit for his im pressiveness as a sire as has been accorded to his son Denmark. Of course, there is no denying the his son Danegelt was a great sire, but to my mind Sir Charles never got the credit he deserved. Most of the best Hackneys of to-day carry the Sir
Charles blood, notably, on this side, Mr. Stevens' Charles blood, notad, whose mother was by Sir Charles Fandango, whose mothe
not a shadow of a doubt, and his sons and grandsons have added lustre to his name. Whe Sir Walter Gilbey paid the highest price ever paid for gelt, then in the sere and yellow leaf, he sho we.l
his excellent judgment in securing this Denmark gelt, thenlent judgment in securing this Denmark again by his progeny in the best show-rings in
England and on the Continent; and through that purchase allone he stands to-day as one of the foremost Hackney breeders-if not the foremost one-
in England. Another genteman, who has ever in England. Another gentteman, who has ever Mr. Burdett-Coutts, wh
pion of the breed, and ners at Olympia, which orizinally came from the Brookfield Stud. men all lovers of the respect and than
tions (especially rom Brookfield

Mr. Prescott Lawrence, of Newport, R. I..,
brought over Fashion, No. 7, a great prizewinner on both sides of the Atlaritic, and still perpetuated in his son, Tiger Lillie 566, now owned by Mr.
Reginald Vanderbilt. Soon after, Mr. A. J. Cas satt, of Philadelphia, brought out Little Wonder, and later on, Cadet. In the 80 's, Senator Fairfax imported Matchless of Londesboro' 18 , and Mr. Perkins Bonfire 43, afterwards owned by the Stevens, of Attica, N. Y., with Langton Performer and Clifton II. Then we had E. D. Jordan, of Boston. Each of these brought over some the first to import Hackneys in any numbers were the Trumans, Burgess and Sterickers, of Illinois, and Galbraiths, of Wisconsin. The Grahams, of Claremont, Ont., and Hon. Robt. Beith, of Bow-
manville, Ont., stand out on your side as early champions of the breed, both having owned remarkable animals. The former brings back to mind Royal Standard and Roseberry, whilst the and Gribthorpe Playmate, both New York champions. Some of the best have gone back to the country which best appreciates a good horse, notably Bonfire, Royal Standard, and Matchless of
Londesboro'. We possibly expect more than is reasanable, and don't always get it ; still, let us consider the best show-ring records on both sides of the line, and review results for the last 1.5
years, and we must admit that the half-blood and pure-bred Hackneys stand out in bold relief as the
 other breeds. Where can you point to any animal that equals the doughty Blucher, and on this
side what have we had that equals the mighty


Flash Cadet (10203)

## fwo-year-old Hackney stallion. Day. First and champion, Royal Show, 1908

 are that have made superb Hildred? Others there ears is not only cruel, but dangerous. The favor tinue to do so, for, notwithstanding the efforts by diverting the attention of the hors obtained that have continually been made to belittle the load, and in many cases he will forget the from the Essex ced on earth.the pulse of the horse
character may be deternined at any point where a SHYING FROM FEAR OR DEFECTIVE VISION. arge artery occupies a situation close to the skin- It has been proved that shying in horses is the or tendom. The most convenient place for taking of fear. A brave horse will mever as it is that the pulse of a horse is at the jaw. The external his eyesight be perfect or not; if the shying be
maxillary artery runs from between the around the lower horder of the jawbone, and uff fhom defective eyes, a great deal of compassion on the outside of the jawbone to the face. It is fear, still greater compassion is due him. Take
located immediately in front of the heavy muscles of the cheek. Its throb can be felt most distinct- the horse up to the object he is afraid of and al
ly juell it, it will often pay the rider ly just before it turns around the lower border of to waste half an hour in convincing a horse that
the jawhone. The balls of the first and second or he has really nothing to be afraid of, rather than the second and third fingers should be pressed to pass on, leaving the horse under the impres sations aree to be studied. The normal pulse of it is best to soothe him, and keep him with it he healthe horse varies in frequency as follows: until he is convinced there is no danger in it. If
stalin. 28
to
322
beats per minute (1) 38 heats per minute: mare, 34 to 40 beats more serious and the horse vision, the matter is

make one out of a colt, he will have to exercise a
great deal of patience to 'whip.'
handling a balky horse.
What is the best way to handle a balky horse
The best manner of handling a balky horse a ways has been, and doubtless will be, a matter of opinion. In most cases whipping does not animal more sulky. Balky horses are generally the result of ignorant, cruel or rash treatment during the education (generally called breaking) of pect a colt to know, more than men, who ex usually responsible for the balking habit in horses And once the habit has been contracted, it is very hard to check. Of course, colts vary greatly in
disposition and predisposition, hence some much more easily spoiled than others are same time, it is seldom that a colt that has been kindly and intelligently handled during his firs lessons, and that has been gradually taught to
draw loads, makes a balker to the average hor man. A man who is compelled to do a certain a mount of work with a horse in a given time must not have a balker. The man who undertakes to cure a balker must not be pressed for time. The
balker must be carefully handled. In the first place, the harness should fit well, and the first should not be heavy. The driver must be able to control his temper, and not have resource to the
whip. When the horse balks he should be whip. When the horse balks, he should be alquite heavy, it should be lightened. The attenother of the horse should be drawn to something
other his load. This mav be done by other than his load. This may be done by giving him an apple, a litfle salt or oats, or by tapping
the shoe with a hammer, etc., and, arter a few , thin, and, after a few
minutes, if he is asked
quietly quietly to go on, it is
very probahle he will do so. By Mind and for considerable time most balkers can be
cured, and jt is possible be met upon whom puat ishment may mhom have pun-
desired effect desired effect, but in
most cases time and kind treatment are neced or passionate man should never undertake
to cure a balker while on the other hand, the horse has been re load, without sufficient liable to become sulky especially if he has sufficient ambition, energy
and spirit to make Many people have
many methods ing balky ing balky horses, such
as pouring sand in his as pouring sand in his
ears, filling the mouth
with sand, lifting his
foot and tapping the
shoe with a hammer shoe with a hammer
etc. There is no paretc. There is no par-
ticular virtue in any of these methods, and the
habit of pouring sand only increase his timidity.
Hatits grow upon horses as they do upon
children. A horse will sometimes shy at a small library or sitting-room of any horseman's home. and were, no doubt, the result of the amalgamapiece of paper lying in the road. The occurrence the place again where he shied. He seems to he is cured of the habit he will be likely to shy every time he passes that particular spot. Horses may get a habit of pulling on one rein because of
some soreness of the mouth. The habit thus formed may be continued after the original cause has been removed.-[Live-stock Journal.

THE HORSE UNRIVALLED IN WINTER Editor 'The Farmer's Advocate
In your issue of August 20th, I notice an Marticle entitled, "We Still Need the Horse chine can put him off the road is to hit him har or frighten him so badly that he will run off When we of this country or snow think of the long winter months, when the auto is out of busiand even the railroads tied up with snow, the thought comes to us, "Hurrah! let's have a
sleigh-ride!" Out to the stable goes the young sleigh-ride !"' Out to the stable goes the young
man in the evening, and in a few minutes the man in the evening, and in a few minutes the
team is harnessed to the large sleigh, a forkful of hay is placed in the bottom, and out we go, gather up the neighbors, and perhaps go to the village and load on one or two more.
for sport. The autoists either have to stay at home or
keep horses as well, which quite a number of them are not able to afford.
Many people grumble at the speed of the auto saying it is a menace to the farmers, especially the wives and daughters. Now, the first time my horse ever saw a railroad engine, she gave me all
I could do to hold her; and it was the same with I could do to hold her; and it was the same with
the auto. But the whip was not used in either case ; if it had been, the horse would never have been forced up to the machines, for she objects to the whip. ${ }_{\text {I }}$ noticed a newspaper joke some time ago, the old woman by the auto, the horse and I will get by all right." Now, that is what I think is the matter, only, instead of saying woman, it shoul We have plenty of autos in our district, driven at a speed of from ten to thirty miles an hour,
and 1 have not heard of one accident yet-that is, to vehicles drawn by horses. No ! the auto is here to stay, so we must make the best of
treat the autoists as friends, not as enemies, and they will do the same with us. R. M. Peterboro Co., Ont.

## FEEDING MILK TO COLTS.

A Manitoba reader asks, "The Farmer's Ad advise me whether or not it is good policy to feed a colt cow's milk aftrr it is weaned? It is two months and a half old now, and eats well."' The reply is that any policy that will keep
flesh on foals after they are weaned is a good one. Nothing so detracts from the value of a colt as to let him get down in flesh between weaning time and winter, and at no time is good feeding so
well repaid. Cow's milk is not of the same composition as that of mare's, hence one needs to use care in feeding it. Put the foal on it gradually, using new milk at first, diluted with about onequarter its bulk of water. Cow's milk averages
about four per cent. fat, and mare's about three, and as it is generally the fat that causes indigestion, its amount should not be large. A little
lime-water in the cow's milk will also help diges lime-water in the cow's milk will also help diges-
tion. After the foal has been accustomed to new tion. After gradually be put on sweet skim milk. Every precaution should be taken to feed him out of a clean dish, and to never give sour milk. Two or three quarts three times a day will
a healthy colt had better have. al Both before and after weaning, a foal should have a liberal supply of crushed oats and bran. If the colt is intended for road work, this will give
him muscle and stamina; and if of draft breedhim muscle and stamina; and in essential features. Always make an effort to keep the milk flesh on a colt. Colts that keep it may be naturath eas, feeders, anyhow, but it always follows that they
are the best keepers. Brown pastures, lack of are the best keepers.
shade, and flies to fight, are a combination that will take the flesh off and the spirit out of almost any colt. On some farms these are difain, will generally answer the purpose
PREMIUM PICTURE OF BARON'S PRIDE. A splendid photo-engraving of the celebrated
Clydesdale stallion. Baron's Pride, may be obtained by any present subscriber of ". The Farmer's Advocate ", who will send us the name of one
new yearly subscriber, accompanied by $\$ 1.50$. The engraving is $7 \times 11$ inches in size, and is printed with a soft tone, combined with much clearness a beautiful picture to frame and hang in the

Copies may be purchased

## LIVE STOCK.

## CONDENSED INFORMATION ABOUT BREEDS.

The receipt of occasional requests for the publiation of sketches of the origin, history and char cteristics of one or more of the principal pure


District Maid
Hackney mare. First and champion, Royal Show, 1908. Owner, R. P. Evans breeds of live stock in America, leads to the effort Angus, was published in 1878, the two Areeds beto condense into one article of moderate space an ing previously recorded in one book, known as the answer to these and orners which may arise, Herds (red, with white face, throat, chest, greater length in the columns of "The Farmer's legs and switch) originated in the County of HereAdvocate." This synopsis will apply only to the ford, im Fngland, and are probably descended from chief breeds of cattle, sheep and swine kept on this one or more of the aboriginal breeds of Great
continent.
Reliable information regarding the
Britain, in that respect showing a common ancescontinent. Reliable information regarding the try with the Devon and Sussex breeds, and were different races prior to the seventeeth century is try with the Devon and sussex breeds, an early
very meager, and the precise origin of the British originally red. It is believed that at an eriod the white


Halstead Duchess 3rd
Champion Shire mare, Royal Show, 1908. period the white
cattle of Wales were crossed upon the
native stock, and that the white marks thus origienstamped by a cross of white-faced ported to England
in 1071. The Here fords are essentially a beef breed, are
noted for their good noted for their good
grazing properties,
for early maturity or early maturity and thickness of
flesh ou loin and
aibs giving ar ribs, giving a large
percentage of the percentage
highest-selling cuts
of meat. of meat. Shorthorns, for
merly known as Dur hams (color, red or white, or a mixture
of thes a called roan), originated in the County of Dur ham, England, pastures, a comparatively large type
of cattle existed several centuries ago, the ancestors
of the modern
Shorthorn, the name being chosen to distinguish them from
the breed known breeds will probably never be fully known. The as Longhorns, then prevailing, and still perprincipal agencies in the evolution of race and petuated as a pure breed, to a limited extent foad, habit, and treatment. Of the varieties of dependent strains of ancestry, namely, the Tees CATTLE. ed through crossing. Those progenitors possessed Aberdeen-Angus cattle (black, and hornless) are and and an aptitude to fatten, but their flesh was

1360

## THE FARMER'S ADVOCATE

offal. eighteenth century, Bros, about the end of the the refining of the breed by judicious and skillful sreeding, and the purchases made at the disper
sion sale of their herd, when the famous bull, Comet, sold for 1,000 guineas, the highest pric ever paid for a bull up to that time, greatly im proved the cattle of the country. Thos. Bates, a
faithful disciple of the Collings, who died in 1849 and whose herd was dispersed in 1850, displayed great skill in improving and developing the breed in its dual-purpose features-the production of bee
and milk. Thomas Booth, and his son Richard contemporaries of Bates, also wrought great im provement in the breed. especially in regard to its beefing propensities and the building up of strong constitutions. Along in the sixties of the nine and reared in Aberdeenshire), with a well-define purpose, building upon a mixed Bates and Booth ern Shorthorn-low-set, thick-fleshed of the mod-early-maturing-which has been used in many countries as a leaven for the improvement of the breed, producing the bulk of the prizewinners in the last
two or three decades. The first importation two or three decades. The first importation of tween 1783 and 1795, and the first to Canada in 1825, by the New Brunswick Board of Agriculture. book was published in English Shorthorn Herdis entitled "Coates's Herdbook " to the present day, fifty-four volumes having been published.
Holsteins, in color, are black and white. Holland, the original home of this great breed of the Friesian are the most numerous, and are the progenitors of nearly all the Holstein-Friesian cat the in America. This is probably the oldest of the known breeds of cattle; they are larger than ably more milk, as a rule, than any other breed their milk testing, on the average, a somewhat lower percentage of fat than the Channel Island breeds. The first importation of cattle from
Holland to the United States of which any definite knowledge, was made in 1861 . The first volume of the American Holstein Herdbook was published in 1872 . The Holstein-Friesian tion in establishing a system of advanced regis try, based on actual performance, under official test. It was established in 1885. The first volume of the Canadian Herdbook for the breed Ayrshires are
Ayrshires are so named from the County of
Ayr, in Scotland, where the breed originated, and Ayr, in Scotiland, where the breed originated, and breed has spread into many other countries, and is now quite numerous in Canada and the United States. In color, they may be red of any shade,
brown, or white, or a mixture of these, each color being distinctly defined. At one time dark colors prevailed in the breed, but in late years, in the majority of cases, white predominates, accomare comparatively long and upturned. In approved dairy form, shape and suspension of udder, and placing of teats, the Ayrshire cow, as a rule,
comes as near the ideal as any, and is also a good comes as near the ideal as any, and is also a good
feeder, has a strong constitution, and yields a arge quantity of milk testing a fairly good perCantage of fat. Ayrshires were brought int Canada by Scotch settlers early in the 19 th cen-
tury, and in recent years have been imported in ary, and in recent years have been imported in
arger numbers than of any other breed. The American Ayrshire Breeders' Association was es
tablished on its present hasis in 1875 , The Ca tablished on its present basis in 1875. The Ca
nadian Ayrshire Breeders' Association, on its pres ent basis, was organized in 1898, although pred gree records of the breed, under Association super vision, have been kept since 18.0.
Jerseys. -This excellent breed of dairy cattle riginated in the Island of Jersey, which is a de pependency of Great Britain. It is generally be
lieved they are descended from the cattle of Mrittany and Normandy, on the adjacent coast. There
is no standard for color in the scale of points of is no standard for color in the scale of points of
the breed, which may include grav, the breed, which may include gray fawn, yellow
fawn, silver-gray, or dark brown eit her solid, of
with white markings. It has lowen claimed that hey have been bred with litt
portation of other cattle into the llan the in provement has been sought and attangelter. In provement has been sought and and an mindich butter-fat, in which respects
while, with these qualities,
titution have been combined.
the United States date as far bach
to Canada in 1868. The American
volumes of its herdbook have h
Registration of Jerseys in Canada
ducted under the National Record
the same lines as that of the America
Cattle Club. Jerseys are now very nut
Canada
sey, one of the Channel Island group, off the have been found specially adapted to the condi-sorth-west coast of France, are, like the Jerseys, tions of soil, pasturage, and other conditions. any and Normandy, and for many cattle of Britbeen bred without admixture of alien blood They ine, as a rule, somewhat larger than the Jerseys or yellor of hair are generally light lemon, orange erally of fawn, with white, while the skin is gensome, as a rule than the Jorseys are less hand


Bourne Beauty
Yearling Yorkshire
$\begin{gathered}\text { sow. } \\ \text { Show, }\end{gathered}$ First and and champlon, Royal
arry less-evenly-balanced udders, but their milk m, on the average, fully as rich in butter-fat, and yield large quantities of milk numerous in the Eastern States, but have not spead rapidly in Canada, though there are some Provinces and British Columbin. Canadians.-The French-Canadia oubtless also descended from the cattle of Brit. tany and Normandy, as they strongly resemble the dark color, from brown to black are uniformly of tlers of Quebec came largely from the above-named provinces in France, and doubtless brought with found in stocks of cattle kept there. They were These early importations were the only source rom which the Canadian cattle derived their into Quebec Province other cattle were introduced

Village Belle


Yearling Shorthorn heifer, First at Royal s from the home of Robert Bakewell, the originator, who lived at Dishley Hall, in Leicestershire. Bake-
well commenced the work of improvement breed about 1755. They were formerly large, coarse-boned, flat-sided, and slow feeders. Bakewell chose animals for breeding possessing in the
highest degree available the qualities he sought to perpetuate, and rendered these permanent by conperpetuate, and rendered these permanent by con-
tinued selection and in-and-in-breeding. The leading qualities he sought were symmetry of form, early maturity, and reduction in the proportion
of bone and offal; and he succeeded so well that, while at first he could only rent his rams for seventeen shillings and sixpence for the season, he
later readily realized one hundred guineas (over later readily realized one hundred guineas (over
five hundred doliars) each for the hire of some of his best rams. Crosses of Leicester blood were later used in the improvement of many of the
other breeds in England and, Scotland. There are now two types of Leicesters in Britain, namely,
the Bakewell and the Border, the latter originated in and are mainly confined to Scotland, and separate prize lists are provided for the two classes at the Royal Show. The Border Leicesters are
the more popular of the two in America, and are among the most numerous of the breeds kept in Canada. They are larger, more upstanding and more stylish than the English or Bakewell type,
which are rather shorter-bodied which are rather shorter-bodied and lower-set Canada in 1800, by Rev. Mr. Toofy, of Quebec and from Scotland about 1840. For a long time
they were more numerous in this country they were more numerous in this country than all ites with a large proportion of Canadian farmers, though other breeds have made great headway in
the last twenty years in gaining favor in this country.
Cotsw
breed cotswolds are breed which origi-
nated in Gloucester
shire shire, England, and
were so named from the Cotswold Hills in that county, on pastured. They are
regarded by some writers as of great
antiquity, and, bewere large tavement, tall,
and rangy, and rangy, producing heavy fleeces of
coarse wool. Im-
provement is said
to have been effected by the $\begin{aligned} & \text { Lei- } \\ & \text { cester cross, } \\ & \text { and } \\ & \text { later by selection }\end{aligned}$ and by selection
anent. good manage- ${ }^{\text {They are }}$ among the largest
oi the breeds Sheen, are very sty-
lish in carriage and appearance, and and
hlear heavy fleeces,
which have been
wreatly improver
lineness


## 

nited into Canada In 1854, by George o that date, cattle of English origin were intro- Pekering, and are now widely "istributed throughCanadian cattlo, many of which hase been bred shire, in Fincland and are now founds of Lincolnwre in the Province for 250 years. They are an of the neightoring counties. A century ago they解 1405 und or the French-Canadian mitry and freding qualitios was efiected by crosses Association. and is continued of lecester bood and improved methods of breedonal hewords with head largest and heaviest of the breeds, shear very

Southdowns are so named from a long range of
halky hills extending through the Counties of Chalky hills extending through the Counties of Kent, Sussex, Hampshire and Dorsetshire, upon
which this class of sheep originally pastured They were formerly long, thin and narrow. Improvement was commenced by John Ellman, of
Sussex, about 1780, and continued by Jonas Webb Sussex, about 1780, and continued by Jonas Webb constitutional qualities of the breed while improv ing its feeding qualities, and left it the ideal model of a mutton breed, the blood of which was later freely used in the evolution of most of the
other Down breeds. And the breed yet holds its own in competition at leading fat-stock shows in Britain, America, and elsewhere. The modern than was the case many years ago, the prevailing color now being a uniform tint of brown or gray
or mouse color. In feeding and early-maturing propensities, and in quality of meat, the bree stands in the front rank. Mouthdowns were im
ported into America from England as early as ported into America from England as early as
1803 , and good flocks are found in many parts of Canada and the United States.
Shropshires.-The Shropshire Down sheep, orig-
inally composite in character, are descended from inally composite in character, are descended from a breed formerly known as Morie Common,
from an extensive tract in Shropshire, England from an extensive tract in Shropshire, England
on which they were reared. Improvement was ef fected during the 19th century, largely through
crossing and selection, and also through bett.er crossing and selection, and also through better wold and Leicester being freely used in their evolution, many breeders working simultaneously, and not atways on the same lines, the outcome finally being the nearest, approach to the ideal Southdown
of all the breeds in mutton qualities, while securing more size and a heavier fleece, of nearly equally fine wool. Shropshires were first recognized in the prize-list of the Royal Show in 1859. They
have gained rapidly in popularity in the last 25 have gained rapidly in popularity in the last 25
years, and are among the most widely-distributed and numerous of the breeds in America at present. The color of their face and legs is darker than
the Southdown and less dark than the Hampthe Southdown and less dark than the Hamp-
shire and Suffolk breeds. Oxfords.- The Oxford Downs originated in the
County of Oxford, England, and are the result of crossing Cotswold rams upon Hampshire Down and mating selected specimens of these cross-breds their dark face and legs being largely due to the Down rarentage. These crosses cannot be traced beyond the year 1833, and it is thought no out-
side blood has been introduced since 18.54 most among the early improvers of the breed was Samuel Druce, of Eynsham, Oxon, who commenced
the work of crossing in 1883. They were first the wórk of crossing in 1883 . They were first
recognized as a distinct breed at the Royal Show in 1862 . They are the largest of the Down breeds, and shear heavier fleeces than any othe
of the medium-wool hreeds, though not of as fine fibre as the wool of the other Down breeds. Ox-
ford Downs were imported into the United States in 1853 , and into Canada soon after that date,
and since 1880 have been imported in comparatively large numbers, and have been widely distributed throughout the continent of America.
Hampshires. The Hampshire Down bree, come of a cross of the improved Southdown up-
on the old Wiltshire horned sheep, and the Berkshire knot. The old wiltsinires were the largest of the fine-wooled breeds of Eingland. Improve-
ment was cffected by crossing, in some instances. southdown rams on native ewes, but sometimes
native rams on Southdown ewes. A careful selecnative rams on Southdown ewes. A careful selec-
tion followed, and after a time cross-bred rams of tion followed, and after a time cross-bred rams of
the proveny were used, and in this way a breed was formed retaining the size and hardihood of the old native breed and the good feading quali-
ties of the Southdown: and in time a breed with ties of the Southdown; and in time a breed with
dark face and legs, combining size and quality. dark face and legs, combining size and quality.
was produced, which became very popular with English farmers, owing to their alaptation to be
ing hurdled in large numbers upon turnips or other green crops, and also owing to the ewes belarge and sold readily at high prices when a few months old, while their lest was full of can meal. of fine quality. Hampshire rams are in active ewes, for producing large, early-maturing lambs
Hampshires were imported into the United States and Canada about 1855. They have not heen heen sought after more largely in the last few years, and a considerable number have been importect,
finding ready purchasirs. Suffolks.-The Suffolk Down sheep, whose cenCambridge and Essex, in England, are essentially the outcome of the crossing of Southdown ramis apon ewes of the old Norfolk breed, whose bodies Were long and rohust, their fleece fine and siky,
and the color of their face and legs a jet black. The improved Suffolks retain the hlack face and legs. They were first named Suffolks in 1859 .
when a class was provided for them at the Show

## trongly resemble the Hampshires in several re- numbers in recent

 quality of fleece, which is dense and fine, and in the quality of their flesh, which is firm, and largely of juicy, lean meat. They have been very The chief of the British breeds of swine at successful in carrying off first and champion pries Tamworth. The principal of the breeds originated shows in England in the carcass competitions. The in America are the Chester White, the Polandfirst importation of Suffolks to Canada was irade in 1888, by B. W. Sewell, Fredericton, N. B. and the first importation to the United States by M. B. Streeter, Brooklyn, N. Y., in the samevear. There are now several flocks of the breed in There are now several flocks of the breed Western Provinces.


Lemster Plum
Hereford heifer, two years old. First in class and female champion, Royal

Dorsets.-The Dorsets are an ancient breed which, in large numbers, inherited the Midland tral home is in Dorsetshire and somersetshire Originally, there were two classes of this variety one rather small and light of carcass, the other the Somerset Dorsets, larger and inore lank is lambs. Improvement was effected by careful se lection and blending of the two classes named, by judicious mating and better feeding, without draw ing upon alien blood. Dorsets have white faces
and legs, and both sexes are horned, the rams
nto America in 1832, America in 1832, were first imported have become popular and countries for their good many continent aarly-maturing qualities, quiet disposition and excellent quality of flesh, the lean and fat being well intermixed. They also hold their own well in the Old Country in fat-stock-show competitions. Yorkshires.-The improved Large Yorkshire of the present day is descended from the larger and coarser Yorkshire of former years, found mainly
in the Fnglish county of that name. The imin the English county of that name. come inced provement and refinement of the breed, commenced
nearly a century ago, has heen made by judicious . legs, and both sexes are hornea, ther crossing with the

white Leicester, the
small Yorkshire, and other small white breeds, such as the suffolk, and the improved or present-
day Large White breed, as they are classed in England, have been brought
to a type showing e showing
refinement, and combining size in a high degree
and they are large ly in demand for the production of the most desirable
quality of bacon. $\begin{array}{cc}\text { quality } \\ \text { Large } & \text { of } \\ \text { Yorkshires }\end{array}$ were imported into Canada as early as
1840 , and in the 1840, and in the last twenty years in large numbers, and widely distrib
uted in this country uted in this corths derive their $n a m e f r o m$ Tamworth, in Staf
having strong, spiral horns. They are of medium size, being considerably larger than Southdowns, have fine, dense fleeces, and an excellent quality of at almost any season of the year, and often producing lambs twice a year. They are valuable for the production of carly lambs, and, the ewes ready good milkers and mothers, the lambs are available. Dorsets were first imported into Canada in 1885, by E. Stanford, an Englishman, them of Markham, ©int., and into the United States in
fordshire, where they
have been numerous-
hey are thought to be ly bred for many years. They are thought to be one of the oldest and purest breats and, as long ago as the beginning of last century, were noted for the large proportion of lean meat they produced. Before improvement,
they were long-legged, flat-ribbed and long-snouted, but were active, hardy, and good rustlers, though slow feeders and late in maturing. It does not appear that the blood of other breeds has been used to any appreciable extent in their improvement, which has been effected by judicious selec-
tion and mating of the fittest, and by good feed-
to the Yorkshires, are red or dark chestnut in color, have a longer and straighter snout, light
jowls, a strong, slightly-arched back, strong legs and feet, without coarseness of bone, are prolific
and hardy, and cross well with other breeds, their flesh being of excellent quality, and admirably filling the bill for export bacon. Tamworths have been imported into Canada in large numbers
since 1888, and are now widely distributed in all since Provinces.
the

Chester Whites.-This breed originated in Ches ter County, Pennsylvania, from which they derive their name. They are a white breed, and probably the oldest of the breeds of purely American
origin. The foundation stocks appear to have origin. The foundation stocks appear in that part of Pennsylvania, prohably descended from white pigs imported from Bediord, England. Formerly,
Chester Whites were coarse in the head, bone and hair, and lacked smoothness of hair, but in the best specimens these coarse features have been eliminated, and they have been transformed into a
smooth and symmetrical form, conforming fairly smooth and symmetrical form, conforming fairly
well to what is known as the bacon type. have been well distributer : and Western States, and a good many herds are found in Canada
Poland-Chinas.-This breed of swine originated
chiefly in Warren and Butler Counties, in Ohio. For many years various names were applied to For many years various names were appled to
it, but its present name was fixed in 1872 . The foundation animals were the common stocks of the country, of mixed breeding, which were more
or less crossed with the Byfield and the Big Chinas or less crossed with the Byfield and the Big Chinas
which existed in Warren County previous to 1820 . The Berkshire cross, introduced in 1835, gave the black color, which has been intensified, until the majority of the breed are marked much like the
Berkshires-black, with white points-whereas, formerly, the breed showed quite as much white as black, and they were less refined than at present; but they now possess early-maturing qualities in
a high degree, and are well adapted to the a high degree, and are well adapted to the con-
ditions of the corn belt of the Tnited States and for the production of the class of pork called for by the markets of that country. By selestion of the fittest, and by pasturing on grass while
young, the breed is susceptible of being transyoung, the breed is susceptible of being trans Canadian breeders have effected considerable im-
provement in the breed in this respect. The Poprovement in the breed in this respect. The Po-
land-China is probably the most widely-distributed and numerous of all the breeds in the United State
breed are - Therseys.-The American Duroc-Jerse of swine, known respectively as the I)urocs and the Jersey Reds, the former having been bred fo matter in New Jersey for the past 50 years. They are red in color, are about equal in size to the Poland-Chinas, and bear considerable resemblance hardy. and have proved well adapted to sections hard.e. good rustling qualitios are required. They
where are widely distributed in the United States, and
are found in limited numbers in most of the Provinces of the Dominion.
Hampshires.- The Hampshire breed of swine posite breed, evolved from a union by crossing of the blood of several of the British and American breeds, principally in the Southern States. They
are black, with a wide white belt encircling the
body at the shoulders. and including the fore flank and fore legs. They are a medium-sized smoothly-formed and refined ciass of hogs, with
fine skin and hair. good feeders, with smoothlyfitting shoulders, and of medium length of body, and a good disposition, are prolific, and the sows
good nurses. They are quite numerous in the United States. and rank well in carcass competilimited numbers in Canada, fut have gained ground and faror in the last few years.
POINTERS FOR HOG FEEDERS

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## THE FARM.

## FALL-WHEAT EXPERIMEITS AT THE O. A.

 Within the past year, experiments have been conducted at the Ontario Agricultural College with winter wheat, winter rye, winter barley, winwas sown in the hatumn of 1907water
About two hundred and sixty varicties of winter wheat have been grown at the college within the past nineteen years. All varieties are care
fully tested for a period of five years, after which the inferior kinds are dropped, and the most promising sorts are continued in future tests. In
1908 sixty-five varieties were under experiment 1908 sixty-five varieties were under experiment.
of this number, ten varieties have been grown for Of this number, ten varieties have been grown for
less than five years, and fifty-five varieties for five


Lincoln Shearling Ran First and champion, Royal Show, 1908.
E. Dean \& Sons.
years or over. As each of the enteen of the var eties has been grown for at least thirteen years, teresting and valuable. The following table gives, for each of these fifteen varieties, the aver age weight per measured bushel for twelve years age yield of both straw and grain per acre for the thirteen-year period.

Per Acr
Average 1 as follows: Weight per measured bushel, 62. as follows: Weight per measured bushel, 62
lbs. for 1908 , and 61 lbs . for the thirteen-yea period: and yield of grain per acre, 31.9 bushel period: and yield of grain per acre, 41.9 bushel period. It will, therefore, be seen that, in th experiments at the College in 1908, the winter wheat gave a comparatively light yield of
but that the grain was of superior quality.
The Dawson's Golden Chaff stands the highes
n average yield of grain per acre of the fiftee varieties tested in each of thirteen years. It pro
duces a very stiff straw of medium length, beard less heads with red chaff, and white grain, som what soft, but about the standard in weight pe
measured bushel. The Imperial Amber produce measured bushel. The Imperial Amber produces bearded head with red chaff, and a red grain of
average quality. The Early Genesee Giant furaverage quality. of medium length and of fair strength; a short, compact, bearded head, and
grain which is sometimes classed as white and sometimes as amber. The straw of the Tasmania Red, Geneva, Tuscan Island, Turkey Red and Ken ucky Giant is comparall per measured the grai Fifty-five varieties of winter wheat, grawn in 1908, have been under experiment for at least five years. In the five-years test, the highest average
 other varieties, which resemble it very closely and which yielded as follows. American Wonder, ,1 bushels; New American Banner, 0 bushels Abundance, 50.6 busharels : Y'rize Taker, 47.7 bushels; Superlative, 47.1 bushels; and Fortyfold, 46.6 bushels. The highest average yields pro duced by varieties of orer cypes Reliable, 45.7 thishels; Paramount, 44.7 bushels; Egyptian Amber 44.7 bushels; and Imperial Amber, 44.3 bushels. The heaviest weights of grain per measured huchel in, the five-years' test have been produced by
he Northwester, 62.3 pounds; Geneva, 62.1 the Northwester, 62.3 pounds; Geneva, ${ }^{62.1}$
pounds; Kentucky Giant, 62 pounds; Auburn, 61.9 pounds; Kentucky Giant, 62 pounds; Auburn, 61.9 Oi the sixty-five varieties of winter wheat
drown in 1908, the greatest yields of grain per grown in 1908, the greatest yields of grain per
acre were produced by the American Banner, 47.5 hushels; Beardless Rural New Yorker No. 6, 45.5 hushels; Dawson's Golden Chaff, 43.9 bushels,
Imerican Wonder, 42.8 bushels: Prize Taker 39. Kmerican Wonder, 42.8 bushels Prize Taker, 39.5 hushels; and Genesee Reliable, 37.9 bushels. And
the heaviest weights per measured bushel, by the (ieneva, 64.4 pounds; Fgyptian Amber, 64 pounds; Russian Amber, 64 pounds; Genesee Reliable, 63.9 ds; and Banatka, In 190 G and 1907, fifty-seven varieties of wintor wheat, grown in the Experimental Department, lranch of the Chemical Department of the College 13ranch of the Chemical Department of the College
Those varieties of wheat which produced the larg. est loaves of bread from equal quantities of flour. In the average of two-years experiments, are as ollows: Crimean Red, Yaroslaf, Winter Red Fife 13anatka, Northwester, Turkey Red. McGarvin,
(icneva. Rudy, and Tasmania Red. These vari-
oties all possess red grain. and, with two excepeties all possess red grain, and, with two excep-
tions, bearded heads.
From the various varipties of whents tested at From the various varieties of wheats trsted at
the College, it seems to be generally true that the College, it seems to be generally true that
white wheats vicld more grain per acre, possess White wheats viclत more grain per acre, possess
stroncer straw, weigh a little less per measured
bushol, are slightly softer in the prain produce a bushel, are slightly softè in the grain, produce a
more popular pastry flour, and furnish a somemore popular pastry flour, and furnish a some-
what weaker flour for bread production than the A considerable amount of work has been done during the past few years of with the obsject of im-
proving some of the liest varieties of winter wheat home of the lest varieties of winter
one strain of Dawson's Golden Chaff gave an aver-
age of 4.7 bushels and another of 3.1 bushels per age of 4.8 than the highest average yield per acre of fifty-seven varieties grown in cach of the past three years. It is also interesting to note that the wheats which gave the highest weights per
measured bushel in 1908 were three selected strains of the Imperial Amber and one selected strain of the Bulgarian. In 1908, about twenty thousand hybrid plants of winter wheat were grown sep-
arately in the experimental grounds. Besides these, arately in the experimental grounds. Besides these,
forty-two distinct plots of hybrids were under test. As these have not all been threshed, it is impossible to give the results at this early date.
The object in this work is to originate new kinds thich will combine the good qualities and elimiThich will combine the good qualities and elimioties. Some of the hybrids obtained are very
teresting, and give promise of good results. In each of nine years experiments have been
conducted in treating winter wheat in different ways to prevent the development stinking smut, and the results have very satisfactory. In the average
past five years, untreated seed produced past five years, untreated seed produced 4.2 per mersed for twenty minutes in a solution made by
adding one pint of formalin to forty-two gallons adding one pint of formalin to forty-two gallons
of water, produced a crop which was practically of water, produced a crop which was practically
free from smut. In 1908, the crop produced on a plot one rod square, from untreated seed, contained over fourteen thousand smut balls, while that produced from similar seed which had been
treated with formalin had no trace of smut. In the Experimental Department, winter wheat which has been grown on clover sod has yielded
much better than that which has been grown on much better than that which has been grown on
timathy sod. timathy sod.
In the average of eight separate tests, land on
which field peas were used as a green manure which field peas were used as a green manure
yielded 6.5 bushels of wheat per acre more than land on which buckwheat was used as a green The results of twelve separate tests made at the College show an average increase in yield of grain per acre of 6.8 bush. from large, as compared with with shrunken seed; and of 35.6 bush. from sound as compared with broken seed. Seed which was allowed to become thoroughly ripened before it
was cut, produced a greater yield of both grain was cut, produced a greater yield of both grain
and straw and a heavier weight of grain per
measured bushel than that produced from wheat measured bushel than that produced from whea
which was cut at any one of four earlier stages of

> FLAX : A CROP, AND AN INDUSTRY

Seeing how many years flax has been grown in Canada, and how important are the uses of flax products everywhere, it is really surprising how
little is known oither of the flax crop itself or of its manufacture into dress goods and wrapping
twines, towels and shoemakers' threads, cambrics twines, towels and shoemakers threads, cambrics
and sail-cloths fine lace and fish nets-all so uni and sail-cloths, fine lace and fish nets-all so uni
versally used. And, Ontario, being especially adapted to the flax crop, should be particularly interested in it

A FEW FACTS
Flax was the earliest-used material for making
Fabrics.
Fine linens were made 4 . Flax has been continuously grown yeard B. C. factured in Canada since 1681 . In 1842 our grandparents grew, retted,
scutched, heckled, spun and wove at home nearly scutched, heckled, spun and wove at home nearly
200,000 yards of linens, all by hand. But in
1891 only 5,400 yards were made in this way. The rest of the enormously-increased demand for
linens was supplied to us by Ireland and other linens was supplied to us by Ireland and other
countries. At the same time, the flax fibre from about
10,000 acres grown on Ontario farms was exported to the United States, there to be made in-
to coarse twines, etc. This year, about 5,000 to coarse twines, etc. This year, about 5,000
acres of flax will follow the same road. Twenty or thirty years ago, if you were living
almost anywhere in Western Ontario, you will almost anywhere in Western Ontario, you will
have seen flax growing, and probably will have You may see the same crop, and the same old
rty machinery in the same, only older-looking, buildings, to-day; but onlchell to Stratfordies in Western Ontario-from Mitchell to Stratford, west. and in a string from Hensall around the shore-
line, south into Essex County. These, with three or four in Waterloo County, make a total of some
two dozen mills in Ontario, now running. Ontaio flax straw is as good-or could be
made as good-as any in the world. Yet, the made as good-as any in the world. Yet, the
fibre which is taken from it at these mills is only
iust teter just better than the poorest and cheapest in the
world-that grown in Russia. It is not wanted at any price, except at the twine mills of the
United States, and, as these mills are combined in a trust, they naturally make their own price for our fibre.
Why don't the mills of Ontario make better Why don't the mills of Ontario make better
fibre and get better prices? They don't know
how; and there are a few other reasons: improvements would be expensive, and, perhaps, might,
after all, be useless. The flax mill makes a fairly

THE FLAX CROF
The flax plant is unlike the grass or leguminous plants common on our farms. It consists of straight, round, hallow, woody stem, covered by
a ribbon of fibres running from the ground to the seed-holl at the top. The leaves have no stems, but grow loosely on the stem itself. The seed is contained in a spherical case at the top of the stem. The fibres of the "bark," which are very fine and long, are united to each other and to the
stem by insoluble stem by insoluble gums, which have to be dis-
solved before the fifres can be spun. This dissolving is done by fermentation, and is the work of certain special bacteria which w
water, and after the plant is dead.

These handfuls of fibre are then twisted and baled together, and sent to the spinning mills. At the spinning mills, these handfuls are combed out-in the United States, by hand; in
Irish mills, by machinery-being further cleaned, Irish mills, by machinery-being further cleaned
broken into finer fibres, and graded into lengths. The fibres are then drawn into a continuous, even, loose strand, called "sliver," which is "rove "in-
to a loose yarn; and this is then tightly spun to a loose yarn; and this is then tightly spun
into the yarn which is to be used for making into the yarn which is to be used for making
twine or linen, or other cloth. This is the brief story of the flax fibre. THE SEFD
Most farmers know something of flaxseen, as to its appearance and use as a part of the feeding ration for farm animals. As, however, it is
hy far the most concentrated food, both as to protein and as to carbohydrate percentage; and as it is also, strangely enough, cooling and as it is also, strangely enough, coolng and

Flaxseed gives a
elatively low yield, relatively low yield,
averaging around 10 averaging around 10
bushels, or 550 lbs ., per acre. The acre-
age of flax-world's growth-is relative-
ly small; and, as its value, especially in Great Britain, is highly appreciated the price of flaxseed is comparatively high,
Nevertheless, it will be found always a profltable thing to buy and feed, if LINSEED OIL AND OIL-CAKE MEAL.
Flaxseed contains a high per-
centage of oil-lin seed oil, as we know
it. This is used for a large number for a large number
of purposes, as for paints, varnishes.,

## RETTING.

Hence the need of " rotting" the straw to
get out the fibre. This is done in various ways get out the fibre. This is done in various ways.
In Ontario, rotting, or "retting," as it is called, is done by spreading the flax, straw, after threshing, on a meadow, where dew and rain pro this system are: First, the uncertainty of proper amount of water, and the "burning" of the flax fibre by the sun, which causes weakness, harshness, loss of weight, and bad color, in proin ireland, Holland, and parts of Russia, the flax straw is immersed in standing pools or "bogs," covered over with straw, etc. In Belgium, the hax is the water slowly percolating through the mass of straw. The Irish system makes dark, greenish-gray or " blue " fibre; the Belgian fibre
is a light creamy color-a difference due to disis a light creamy color-a difference due to disgums, which are not washed off and away during retting, as in Belgium.
scutching
After the flax is retted, it is stored for scutching. This operation is carried on in a factory in woody stems, loosening the fibres in the ribbons of bark, and then "combing " or scraping off the fragments of wood (called "shivs ") from the still lirst and tough fibres. The work is done by, second, holding handfuls of the crushed straw to revolving blades on a wheel, so that the blades


Typical Ontario Flax Mill
archased by the Standard Flax Co., from Hector Gunn, one of the pioneer flax men, Parkhill,
beef in stable, even as much as seven pounds may gap in the rear plank between the middle skids, at the rate of 4,160 pounds of hay, cured suff be used per day. For calves, its value is well gap in the rear plank between the middle skids, at the rate of 4, 160 pounds of hay, cured suffknown. For mares or cows, before and after Make frame of some good hard wood.
giving birth, it is highly valuable, though care Mer
Perth Co., Ont.
WILL M. TURNIBL must be exercised. The meal has a double effect: First, as a cooling food; second, in giving health to the membranes, facilitating birth, and lessening danger of after-troubles. Caution is
necessary in avoiding overfeeding of the meal, necessary in avoiding overfeeding of the meal,
which might cause abortion. Above all, be it remembered, it is both a condition-powder in itself, and a food of the highest profit.
FLAX AS A CROP
a a crop on the land. It has often been flax as a crop on the land. It has often been said
that flax is hard on the land. But flax takes less plant food out of the soil than any other crop except legumes. The trouble is that flax
straw does not return to the soil as manure. But straw does not return to the soil as manure. But,
with the higher rental obtained for flax, fertilizer with the higher rental obtained for flax, fertilizer
can be bought-though, in fact, they are never found needed-and the difficulty overcome. Farmers in flax districts value flax as a crop in rotation, to be sown following sod, for two reasons:
One, that it gives them a safe return, where oats would be likely to go too much to straw ; the other, that flax is death to the wireworm, which is yearly becoming a more serious foe to all crops. Further, it may be said that a flax crop gives the
farmer no anxiety after seeding, as the harvesting is done by the flaxmill, leaving the farmer to attend to his other crops, which, in the present scarcity of labor, is a considerable relief. After
flax, wheat will give a better yield than after other grain crop-a fact proven wherever the practice has been tried.
In conclusion, it may be said that flax has its
place-and an important one-in the place-and an important one-in the rotation of pasturing districts in increasing degree, provided the mills are installed to give the opportunity. The flax industry further provides winter employment for many men otherwise lost to the dis-
trict, and brings in and spends, on rentals and trict, and brings in and spends, on rentals and labor, much money that would not otherwise fin
its way to the community. A. L. McCREDIE.

## A POST DRIVER

Editor "The Farmer's Advocate
Seeing an inquiry about a post driver, I sub-
mit the accompanying rough plan of a driver that mit the accompanying rough plan of a driver that
was in use in our neighborhood some years ago The bottom is made of four pieces, $6 \times 6$, and 12 feet long, with cross-pieces of plank 8 or 10 inches wide and 12 feet long, bolted on. It can be a
little narrower. if necessary nittle narrower, if necessary, to pass through
gates., The uprights are $6 \times 6$, and 20 feet they are fastened to bottom behind the middle cross-piece, to the two center skids, and braced on all sides a little better than half, way up. In the machine 1 saw, a heavy woden block was
used. It was probably. 4 feet long, 16 inches square, with four iron pins driven on the sides to keep it between the uprights, and a square-topped
staple driven in the toi for the tongs staple driven in the top for the tongs to grip,
Two level pieces nailed in the set the weight free by closing the handles of the tongs. Any blactsmith can make the tongs. Attach rope to tongs by eve in the center, and run over pulley in ton standrid. and down to
pulley at heel of standard. If desired, an iron weight, with grooves in sides, could to had at the
foundry, any weight reouired. If iron weight is used, spike a riece 2 inches wide on insides of


## alfalfa inoculation in alberta.

$\qquad$ difference in growth of inoculated and uninocuLacombe. Alta. The seed was sown on rather


Alberta Alfalfa.
Eive-stock judge McRae, holding sample plants
was where alfalia had been successfully grow
was used at the rate of about 100 pounds pe
acre ; onecquarter was left without truat men
The plants in the illustration wern dug withinfour
reet, and represent the average diference as a r
sult of inoculation. The first colting was mad

WINTER WHEAT FOR SOUTHERN ALBERTA The success of the winter-wheat crop in South-
ern Alberta this year is such as to indicate that it will become a staple in that part of the Province. The area over which the crop has been
tested is quite large, and the yields coming from the thresher are reported as uniformly satisfac tory. The climate of Southern Alberta seems be such that wheat which has a good stand in th prevail, is in a better condition than suring cown grain to go on and give a favorable account of itself at harvest. Early seeding is advised,

## THE DAIRY

CASH FOR APPLIED BRAIN - POWER. GROWTH OF THE COW-TESTING ASSOCIATIONS. Chas. F. Whitle
a small area in three counties in Quehec undertaken in a small area in three counties in Quehec, to gauge the
attitude of dairy farmers towards cow-census work, an to gather data for driving home some forceful comparisons. Over 70 farmers were induced to commence weighing and sampling systematically; in July of that year in theif samples of milk were tested at Cowansville
The next year saw a change in methods, and seven
localities-4 in Ontario, 2 in Quebec localities- 4 in Ontario, 2 in Quebec, and 1 in Prince Edward Island-were selected for one thirty-day test.
This was done with a view of arousing a more widospread interest in the movement. Over 1,350 cows
were recorded. In January, 1906, the first cow-testing association was duly organized on a co-operative basis at Cowana ville, Que. Sixteen associations altogether were in operased that year, with over 4,000 cows entered to ing the year. For instance, all the patrons of one small cheese factory were not able to make a better
showing than an average return of $\$ 28.60$ per cow tor showing than an average return of $\$ 28.60$ per cow for of 28 cows that averaged $6,900 \mathrm{lbs}$. milk, testing 8.9 worth at least $\$ 70.00$ per cow, for the year. How ever, it is not average results that are looked for: the
prime object of association work is to induce a study prime object of association work is to induce a study
of each individual cow in the herd? Why? Becaus there are such startling variations between the capacity or production of cows in the same herd, even of the same breed, under exactly parallel conditions, that
only cold, hard figuring will enable one to detect thase only cold, hard figuring will enable one to detect those
that give a handsome margin of profit. Economical milk production is the target for every dairy farmer's aim. Many cows-too many-have not and never can
possess that most desirable quality and power. They possess that most desirable quality and power. They
have no definite breeding or present intelligent handling to support them in the undertaking, hence they must be discarded. Only the scales and the test supply the necessary information to commence selection.
The year 1907 saw a marked The year 1907 saw a marked growth, for 58 asso-
ciations were running, with 876 members, and over
41 000 俍 41.000 tests made by wifficials from Ottawa of the branch of the Dairy and Cold-storage Commissioner. Many surprises were found in scores of herdss; cows
that had been booked for the butcher proved themselves by been booked for the butcher proved them-
test to be the heaviest producers, while in many cases those thought to he the best had to
 current prices are now held at $\$ 100$, and some far many herds it has been shown that one cow has earned
$\$ 20$, and even $\$ 25$, more than another in only seven and even 825 , more than another in only seven
nonths. Other herds show that in some cases one NW is almost three times as valuable as the one in
he atjooining stall. Keeping better cows is thus real
 IV. month the records grow. and show to the shrewd
", ${ }^{\prime}$ nor. the enguiring children, the hitherto indiferent liral man, or the watchful women of the household, Just what each cow can do when rightly cared for.
The pressnt year of grace, 1908 stands full
guromis. Joininy with the older members in Prin Promise Joining with the older members in Prine
Didward Ond Ontario and Quabec, the farmers in Mritish Columbia and New Brunbsick have taken up
the manter heartily, so that there are now over 80 ascociations orpanized. Its importance once thorough-
Iy krasped
hy the dairymen of the Dominion, the movement is iny the dairymen of the spread rapidy. Tominion, the
The cost is
trillinge the possible results enormous. Thirty million dollars stems a large sum, hut this could easily be an



Th. farmer who is not able to join a cow-test-

A Post Driver Illustrated by Diagrams.


OFFICIAL TESTIMG OF PURE-BRED COWS In 1906 the Dominion Minister of Agriculture, Hon. Sydney Fisher, caused to be instituted,
under the supervision of the Live-stock Branch of under the supervision a system of yearly testing for in pure-bred herds, with a view to the improvement of the average productive capacity of the dairy cows of the country, through the use of sires
bred from dams qualifying for Records of Perbred from dams qualifying for Records of Per-
formance provided for under this system, and by the weeding out of inferior cows. The dairy breed societies were invited; and several have agreed to societish these records for their respective breeds in (1) appendix to their herdbooks, accepting 'the ard for each of their respective breeds, the Department assuming the expense of the supervising
inspectors appointed by the Minister to make uninspectors appointed by the Minister to make un-
announced quarterly visits of two days' duration to the herds, verifying the private records kept by weighing and taking samples for testing by the Babcock method of the milk of the cows en tered for the test, taking also a ${ }^{\text {r }}$
previous days' milk for comparison
The classification of cows is in four sections, namely, for cows two to three, three to four, four to five, and five years old or over. Applications
for official supervision of the test must be made for official supervision of the test must be made breed to which animals belong. The owner of a cow entered in the test is required to weigh each milking and keep a correct record of the same on forms furntshed for the purpose. At the
end of each month the owner is required to report, on forms furnished for the purpose, a record of the weights of each milking, with the tota
yield of milk from each cow for the month, yield of milk from each cow for the month, and
at the end of the year a compiled report of the year's millk record, taken from the monthly re ports sworn to before a notary public or justice o the peace. Each breed society fixes its own minimu standard of milk and butter-fat production re quired to render animations eligible to have their names and records fications eligithe Record of Performance. Some societies have adopted highor standards than others, although this inbition of the society. I our opinion, a medium standard is desirable, so
as to admit all cows of genuine merit. Those which make exceptionally good records in the o In case of Ayrshires, the minimum year's pro duction to qualify for the record is, for two-year-
old heifers, 5,500 pounds of milk, and of butterold heifers, 5,500 pounds of milk, and of butter
fat 198 pounds. And for each day the animal is fat 198 pounds. And for each day the animal is
over two years old at the beginning of her year's test, the amount of milk she will be required to produce in one year is determined by adding 2.75 pounds per day to the 5,500 pounds required
for an even two-year-old; while the amount of for an even two-year-old; while the amount of
butter-fat increases at the rate of one-tenth pound for each day over two years. This ratio is applicable until the animal is five years old, when
the required amount of milk will be 8,500 pounds, the required amount of milk will be 8,500 pounds,
and of butter-fat 306 pounds, which are the minimum amounts of milk and butter-fat required of all Ayrshire cows five years old or over. For
Jerseys the milk standard is the saine us for Ayrshires, but the reguirements as the standard adopted by the Holstein-Friesian breeders calls for a minimum of 2,000 pounds more 1 ilk than
demanded by the Ayrshire and Jersey breeders, demanded by the Ayrshire and Jersey
and a little more fat than the Jersey winimum requires. The Guernsey standard specilies in each class 500 pounds less mite from 2 to 14 pounds more butter-fat. The French-Canadian breeders will record the per formance of a two-year-old heifer if she yields 4,400 pounds of milk and 198 pounds of butter fat, while from a mature cow they deman which it will be noticed that their fat standard is the same as for Ayrshires, although their milk mini
num is considerably lower.
After a cow has finished her milking period iffidavit that the records of milk sent by him to the office are correct. The butter-fat is computed irom the inspector's reports and tests. The fat reading of each report corevus report and half-
half-way back to the previous Heport of the cow's
wat on to the next report. Her "ay on to the next repery dropped her calf. number oif days in milk average percentage of fat etc.
cigned by the Li e-stock Commissioner is sent in cigned
Iup icate to the secretary of the association: one
of these raports is to go to the owner of the cow. of these reports is to go to the owner of the cow, if registration: the other is for the secretarys with that cow for that year But she may be Wisted each consecutive vear if the owner wishes
in fact, consecutive thisting is andised, because
"ow that can qualify and make a fair renord for
visits than the quarterly ones originally provided for, and expect, in the near fucur, to make one a month. In case "stufting of mill be made, and suspected, more irequent visits whe de made, and
if the inspectors are satisfied the weights given by the owner are not correct, no more testing will be done for that party; and what that would
mean to a breeder is readily understood. mean to a breeder is readily understood. published shall be made by regular-breeding cows in an ordinary lactation period, there is a rule, as fol-
". In the four-year-old class and the mature class no cow will be accented for entry if the beginning of her previous lactation period was more than fifteen months before the commencement of the test. Every cow under test must drop a calf within fifteen months after the begin-
ning of her testing period in order to qualify for registration of performance. No milk from a secregd freshening within 365. days will be considered


Mr. G. W. Clemons.
About 25 cows that would have qualified had they dropped their calves in time, are now out of it for two years. Some breeders, desirous of making oig records, went too near the danger int, and missed all.
Mr. Dan Drummond, an experienced dairyman, Quebec, was the first inspector of this work desirability of making more frequent inspection of cows was recognized, assistance was found necessary, and Mr. G. W. Clemons, of St. George, Ont., ditional inspector will be required in the near future to keep up with the work.
Below are the number of applications to July 1st, 1908. It will be noticed that the list embraces representatives of but three breeds-Ayr-
shires, Holsteins, and one French-Canadian. It is to be hoped that owners of the other breeds will to be hoped that owners of the work in future with equal interest. We might add that the Holstein breeders have, in addition, a well-established Record of Mer it, based on official weekly tests, in which a goodry number of their cows are entered. The Meris Record Department of Agriculture.

Qualified .....
Failed in
-.......................................... ${ }_{41}^{45}$
Still running .
Wtharawn or failed ........................ 137
Following is the report of all cows qualified $t$

$$
\begin{aligned}
& \text { Mature class, } \\
& \text { Ayrshire-Five years and },
\end{aligned}
$$

Name. Reg. No. Owner. Milk. age. Fat. Days.
 Almeda of Danville 152 S2-
G. Langelier, Cap Rouge, Que. .........................
Mitile $11539-$
G. Langelier, Cap Rouge
$\begin{array}{llll}11,357 & 3.6 & 409.95 & 365\end{array}$ Lady Isabel 7467Miss $\begin{gathered}\text { ville, Que. .......... } \\ \text { Sandilands } \\ \text { 8934- }\end{gathered}$
$\begin{array}{llll}8.884 & 3.76 & 332.60 & 344\end{array}$ J. N. Greenshields, Dan-
$\begin{array}{lllllll} & 8.5798 & 3.76 & 312.57 & 345\end{array}$ R. R. Ness, Howick, Que. 8,549
Nellie Rurns of Burnaidel R. R. Ness, Howick, Que. $8,-22 t^{\prime} 3.66 \quad 320.5 \quad 275$
R.

#  <br> Mr. Dan Drummond. 

Matchless Beauty of Nether-
ea 19601- Langelier Cap Rouge

balsy of Carineim $11540-$
N. Greenshields, Dan-
ady Pearl of Burneide 13467
$\begin{array}{llll}12,297 & 3.15 & 386.4 & 365\end{array}$
$\begin{array}{lllll}\text { R. R. Ness, Howick, Que. 9,226\& } & 3.56 & 328.8 & 287\end{array}$ Chapelton $S$ waney 3 rd $65330-$ $\xrightarrow[\text { H. Gordon, Howick, Que }]{ }$
$\begin{array}{llll}8.599 & 4.28 & 366.9 & 355\end{array}$
E. Cohoon, Harrietsville,

$\begin{array}{lllll}18,158.3 & 8.83 & 485.4 & 365\end{array}$
Cohoon, Harrietsville,
Que. ...................... $11,222.4$
3.97
446.2 Winona of Brookhill 7479 J. N. Greenshields, Dan
$\begin{array}{llll}9,843 & 3.77 & 371.1 & 365\end{array}$ *14 cows-Average lbs. milk, $9,894.25$; per cont. of THREE-YFAR-OLD CLASS
Name. Reg. No. Owner. Lilk. Aver- Lbs. Fat. Da
 Gubile of Hickory Hill 28480 , 143 80 $\begin{array}{llllll}\text { N. Dyment, Clappison, Ont. } & 7,348 & 4.38 & 320 & 268\end{array}$ $\begin{array}{lllllll}\text { Rosalie of Hickory Hill } 23482- \\ 7,935.7 & 4.41 & 350 & 365\end{array}$ rimrose of Hickory Hill 15333FFour three-yenr-olds-Average lbs. milk, 878 - Four three-year-oris-Avera

two-year-old class
Ayrshire.
Name. Reg. No. Owner. Milk. age. Fat. Days. Lady Clara, 4th of Burnside,
22293- Ness, Howick, Que.
R. R. Ness, Howick, Que.
Barcheskie Lucky Girl $21363-$
R
R. R. Ness, Howick, Que
Monkliand Dorothy $21370-$
R. R. Ness, Howick,
Finlayson Rose 21369-

Finlayson Rose 21369-
R. R. Ness, Howick, Qu
Susie or Hickory Hill $22336-$
Susie of Hickory Hill 22336 -
N. Dyment. Clappison, On
Isalelgh Nancy 1st 20525-

Tsalelgh Nancy 1st 20525-
J. N. G Greenshields.
ville, Que. ............
Sunnymead Princess $19360-1$
W. D. Parker, Hatley,
innie of Elm Shade 18883
Barcheskio Sybil 25238-
H. Gordon, Howick,
tadacona Lilly $19257-$
G. Langelier, Cap Rouge
Qungelier, Cap Rouge
Adalta 2nd 22949
E. Cohoon, Harrietsville

Annie of Warkworth 21493-
A. Hume, Menie, Ont.....
Daisy
Queen 2nd 22950-
E. Cohoon, Harrietsville

Que. ariballa...............
N. Greenshields, Tan-
ville, Que. ...............
Lady Brant of Neidpath 21463-
w. W. Ballantyne, Strat

Pord, Ont. ........ .......
Ladacona Silver Queen $20043-1$
G. A. Langelier, Cap Rouge,

Que.
for 10 two-year-olds-7,188. 5
4.1 per cent. fat.
five years and over
Holstein Cows.
Name Reg, No Owner Lbs. Aver- Lbs,
Madam Dot 3rd's Princess
Pauline De Kol 3708-
Sangster, Ormstown
aggie Dorliska $7259-$
G. H. Caughell
H. Caughell, Middle- 11.04 .50 .428038
march, Ont.
Dorliska Willis 4617-
H. Caughell, Middle-
march, Ont. .......... HOLSTEIN, FOUR YEARS OLD.
Rhoda's Queen $4832-$
N. Sangster, Ormstown, $12.597 .93 .35 \quad 422.8$
$\underset{\text { Holsteln, two yfars old. }}{ }$
N. Sang

Dorothy Due.
G. H. Caughell, Middle-

french-Canadian, five years and over
Fancy $6252-$
F. B. M
Heights, Quala. Hudson

REJECT THE FIRST FEW STREAMS OF MILK Some recent English investigations, carried out on behalf of some of the County and Borougl
Councils in Yorkshire, demonstrated that the firs milk drawn from each cow contained an cnormous ly greater number of germs than either the mid milk or the strippings. The first or fore milk from the teat, the mid-milk being taken when th milking was hali accomplishe
The numbers were quite
sults largely confirmed thos
sults largely confirmed those
ors, one of whom found 97
forst milk,' as compared with about actin in in mid-milk, and 500 in the stripping.
that the bacteria clustered in colonics about il end of the teat
first few streams
The practical lesson is, of course the
first two or three streams of milk from cach , wh not even allowing it to come in contact with th
inside of the pail. As the fore-milk is very th and watery, practically no butter-fat is lost, whil. the bacterial content of the mess of milk
thery
very much reduced, and its wholesomer
keeping qualities accordingly improved.
Two farmers, living near Aylmer, Ont., Joseph James and Beni. James, were fined $\$ 25$ and cost
y Magistrate Bradley, of Aylmer, for sending y Magistrate Bradley, of Aylmer, for sendin

## TO KEEP COWS CLEAN

A dairyman from Leeds Co., Ont., describes to "The Farmer's Advocate" a simple device for keeping cows clean, which he has used in his own stable successfully for many years. It consists of cows' backs, just high cnough to be nicely clear of the top-line as they stand in the row. The straightedge is attached with pins to the lower end of upright scantling suspended from the joists straightedge is attached with pins to the lower Those who follow our market page will have
end of upright scantling suspended from the joists occasionally noticed special mention of the Locust
above, and, by shifting the pins higher or lower Hill brand of
always be practicable, as some stables are arranged with the platform longer at one end than
at the other, the cows being graded according at the other, the cows being graded according to size, and the biggest cows are not always the boss
ones. Before milking, some fresh straw thrown across the gutter makes it nice and pleasant for

## A NOTED BRAND OF CREAMERY BUTTER

 Hill brand the best brand com

Auchentorlie Bloomer
Three-year-old Ayrshire cow. First in class and breed champion, Highland Soear may be accommadated to cows of height. This horizontal piece compels the cow to from their wagons. Its sixe is about $25 \times 70$ feet. back up when she raises her body to pass dung or vats, 300 gallons each; a turbine separator of urine. The cows are fastened with stanchions, 3,500 pounds capacity; a pasteurizer and a cooler, and, as the platform is made rather long, it per- each 3,500 pounds capacity, combined churn and mits them to step back to the edge of the drop, engine. The annual output is about 145000 without allowing them to get their feet into the pounds butter. The raw material is principally
gutter. This is further guarded against by hav gutter. This is further guarded against by hav- sweet cream, delivered by the patrons themselves,
ing a pretty high drop of ten or twelve inches. though milk is also received ing a pretty high drop of ten or twelve inches, though milk is also received from about twenty
The cows soon acquire the hahit of backing up, patrons and separated at the creamer so that, even when the straightedge is removed, cream is delivered as often as creamery. Twe necessary, so that
they will still do so. Consequence is that the they will still do so. Consequence is that the when it reaches the creamery it is sweet and of that
platform is always clean. and, moreover, the cows ened flavor platform is always clean, and, moreover, the cows' god flavor. Some patrons deliver twice a
tails are kept out of the wet and dirt, thus pre. week some three time and


Keystone
the best brand com
ing on the marke ing on the marke
for eight years past, enjoying that reputation all through the City o ing the maker fron ing the maker from $\begin{array}{ll}\text { per } & \text { pound more } \\ \text { than } & \text { other } \\ \text { cream- }\end{array}$ ery, and a demand the supply. "here this butter manufactured is situated at $\begin{gathered}\text { Locust } \\ \text { Hill, } \\ \text { York } \\ \text { Co., }\end{gathered}$ Oneario, and is opera ed by a private it on the same line as a co-operativ
association.
Th president is F. E
 ing stands on a side-hill, being so situated that the some daily or every
other day. $\begin{gathered}\text { The } \\ \text { water supply is }\end{gathered}$ Water supply is
drawn from an ar-
tesian well, 192 ft . tesian well, 192 ft.
deep, which supplies all the water re-
quired for cooling the cream and washing the butter, it
is always at a temperature of 48 de-
grees. The water
for the grees. The water
or the boiler is ob-
tained from tained from the
Rouge River, which of the building The method of brietly, as follows
The cream received sweet, and of good
flavor, is immediateflavor, is immediate-
ly pasteurized, and cooled to a tempera-
ture of alout 63 de-
grees, when it grees, when it is
ripened by adding a
commercial culture and cooled to churn

GARDEN

CO-OPERATIVE APPLE SELLING
By A. McNeill, Chief, Fruit Division, Ottawa. Co-operative selling in Canada is making progress,
but not as fast as the benefits of the movement end but not as fast as the benefits of the movement and
the intelligence of the people would warrant. The
obstacles are numerous, but none stands more in the obstacles are numerous, but none stands more in the
way of the movement than the lack of leaders among groups of farmers.
The Chatham, St. Catharines, Simcoe and Fore associations show clearly that success is not dependent 4 \% or leader is a most essential feature of the case. The
farmers composing the Simcoe Association, for in-
stance, are neither more nor less intelligent than the stance, are neither more nor less intelligent than the
farmers of dozens of other localities that might be mentioned having no co-operative associations. The
apple-growers of these localities will get from 75c. to
$\$ 1.00$ per barrel for their apples, while the Simcoe Association members will get $\$ 2.00$ per barrel and
over. The difference is in having a leader. The conditions surrounding the apple-growers of any one of the
co-operative associations named above are not different places in other parts of Ontario and Canada generally.
The man in the neighborhood who stands out pre eminent for honesty, intelligence and unselfishness makes
the difference. He adds hundreds of dollars to the
value of the orchard of every member if he takes value of the orchard of every member if he takes
charge of a co-operative association. He is a veri-
table asset to- a community, as tangibe an whe convertible almost as coin. Sach men, unfortunately,
cannot be duplicated in all parts of the country. There may be men-and, undoubtedly, there are men-just as honest and just as public-spirited, but they have not
ben trained to act as leaders among their fellows. ability, and are just as shrewd in making a bargain, but, unfortunately, many such men, are not public-
spirited, and cannot resist the temptation of turning
to their own use the advantages which should accrue to the members of their association. And thus it
happens, that in the matter of co-operation, the people ore not as fit as they should be, but are ready. The
opportunities are there, but the leaders are lacking.
I make the statement that the people are ready. I do not mean to say that they have all the qualifica-
tions which would make the movement successiul by the force of the will of the members alone. They are
simply ready in the sense that a skilled leader could
hold these half-trained growers together by giving them the material advantages that co-operation brings. In
every apple-growing locality there is an abundance of every apple-growing locality there is an abundance of
this raw material for a co-operative society. They
form not precisely an inert membership, but a membership without great enthusiasm. Success in the move-
ment is possible only when they are coerced by the most cases wanting.
For this reason we should encourage all organiza-
tions among farmers, the purpose of which is to detions among farmers, the purpose of which is to de-
velop farm leaders, as well as to train the member-
shin co ac to cunplement any deficiency which a leader may have. The Grange should be a very useful organization for that how the Grange would hesitate to take up the
stand hort
matter of coopperative selling as part of the work of
the Grange, but the whole tendency of the training which the Grange membership gets is towards the
training of the membership of the farmers' organizaThey could also very consistently ampport and end en-
courage the establishment of a separate organization courage the establishment of a separate organization,
composed of Grange members, to take over all such work as the co-operative selling of apples, and, indeed,
it need not be confined specially to apples. Co-opera-
tion is sadly needed in the pooltry business, in the
products of bacon, and in the dairy industry. Indeed, their share of the benefits. It is important to point ut that co-operative apple selling is not selfish in confining its benefits to the apple-grower himself. It
means better prices for the grower, better apples fo less money to the consumer, and a fair remuneration portation companies.
If the history of our own co-operative societies does ot convince the doubting Thomas, let him investigat he history of Denmark and Ireland. Agricultural teenth century to a state of destitution scarcely to be conceived by the well-fed Canadian. Co-operation in the production of butter, cheese, bacon and eggs ha
brought her to the point where she is the envy brought her to the point where she is the envy of
other nations having far greater natural advantages Ireland is another case to be cited. Within the last
frw years coeperation later few years co-operation has made such advances ther
that the woes of Ireland may be formotten in the prosperity coming to the people as the result of co operation in agricultural products.

| To few journals is it given to establish themselves so tharoughly in the confidence and esteem of its clientele as " The Farmer's Advocate " has done during the fortyodd years of continuous publication. The paper is now well over a generation old, and no small proportion of its present readers are the sons of early subscribers. To one who has watched its steady growth, from an unpretentious monthly form, to the present weekly standard, there is a peculiar glow of pride with which he peruses such letters as that printed below, from a worthy son of the old guard. Our correspondent asks us not to mention his name, but we feel sure his remarks would lose no force in his own neighborhood were it ap-pended-and that is saying a goood deal : <br> ' While writing you for information, I wish to addl a word of appreciation. 'The Farmer's Advocate' was in the home nearly every year in my boyhood days, and I then read, enjoyed and understood most of it. <br> Father was a great reader, and we took from five to eight papers, so we did not have to read ' The Farmer's Advocate ' or nothing, but read it from choice. I have been farming for myself for eighteen years now, and have always taken it, and expect to while it is all well edited, as it now is and has been since I knew it. Have never sent you a new subscriber direct, but you have several permanent ones that I think came through my influence, and a few that are 'on-and-off.' I wish you continued success. Keep practical, and with the brains that are at the head, you will continue to lead." |  |
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FRUIT-GROWING IN BRITISH COLUMBIA.




## more rapidly than it is doing at the present time. And in so doing, such men would thevo their

more rapidly than it is doing at the phesent their reward
And in so doing, such men would have to
in the bettering of their own condition and the condi-
tion of their own class, if they are inclined to take hy these co-operative methods is a benefit to all classes of society and all conditions of men, except the nar-
onw-minded and selfish individual who wishes to prey as a parasite upon the body politic.
T would, therefore, ask all such professional men
when and merchants, and all such furmers who assire to do
anything more than mercly vegetate on their own anything more than merriy fors investigate the benefits that have come to
farms. to
the members of the co-operative associations in Can-

and sunny, producing a large, beautifully-colored
ruit, with excellent quality.
The rainfall, al fruit, with excellent qualry. The rainfalt, al-
though not heavy, is sufficient in most districts;
irrigation can be easily obtained, owing to the rrigation can be easily obtained, owing to the
fact that the fruit lands are situated in the valleys between the mountains.
The wash of
The wash of generations from the mountains
above deposits in the plains below fertility second bove deposits in the plains below fertility second chiefly of loam mixed with fine, decomposed granfo, with a good clay subsoil.
For a market, we have the vast prairie Provinces, where fruit can never be grown to any ex-
tent. This market is a growing market, and inexhaustible. The people of the prairie will never pay duty on fruit from the South, when it can be obtained within a few hours after picking from
a sister Province. At present, very little of this sister Province. At present, very little of this
fruit reaches further east than Calgary, and most of it is consumed by the miners and lumbermen of Again I repeat that, considering this ideal climate and soil which, we have, and considering
this vast, inexhaustible market, growing up with n our reach, a great responsibility rests upon the shoulders of the pioneer fruit-grower-a responsi
bility to teach and educate our newcomers hlity to teach and educate our newcomers and
less-experienced fruit-growers to adopt the most up-to-date and improved methods of selection, culture and marketing; a responsibility to fight and keep out of this fair Province the codling moth
San Jose scale, and other injurious insects. responsibility to establish on a rock foundation a market in the prairie Provinces; and, above all to build up an industry which will reflect credit on our Province and on our Dominion.
We have a wonderful market growin
us. See to it that we grow up with this market and that we do it and ourselves credit, by pro ducing and marketing a superior quality of fruit
JAS. A. HAYES.

## THE TOBACCO CROP

Essex and planted in tobacco in the Counties of Essex and Kent, Ont., has been considerably re duced in 1908, overproduction in the two previous
years having caused such a fall in prices that years having caused such a fall in prices that
many growers have decided either to cease thei cultivation of tobacco, or to restrict it until such time as the market for Burley, which is' the principal tobacco grown in the district, becomes more
favorable. Meanwhile, says F . Charlan, Chief the Tobacco Division, Ottawa, a good many grow ers have renewed the cultivation of black smoking It may be roughly estimated, he proceeds, writIt may be roughly estimated, he proceeds, writ
ing under date of July 31st, that about $1,000,000$
pounds of tobacco will be produced this year in pounds of tobacco will be produced this year in Ontario. Of this quantity, the largest proportion
consists of Seed Leaf, Big Ohio (Walkerville), $\mathrm{H}_{\mathrm{a}}$ consists of Seed Leaf, Big Ohio (Walkerville), Ha vanna Seed
mer-Spanish.
Seed-leaf plantations, and tobacco derived therefrom, are usually made by growers under contracts with the district buyers. These conthe area to be grown. The plantations have, as a rule, been established very late this season, and have suffered from drouth; but, since the rainIn Quebec, late plantations suffered at firs from the drouth, but the present position is good and the yield of tobacco in 1908 for Quebec may
be estimated at $4,000,000$ or 4,500 0u0 be estimated at $4,000,000$ or $4,500,000$ pounds
The area devoted to Comstock, especially, has creased, to the detriment of previous plantations of Connecticut Seed Leaf, or of heavier tobaccos.
Provided that there are light showers of rain be Provided that there are light showers of rain be
tween now and the autumn, sufficient to sustain vegetation, the yield will certainly be very good both as regards quality and quantity
A large part of the Comstock-Spanish and Ha-
vanna Seed Leaf plantations has been made with vanna Seed Leaf plantations has been made with
the distances closer than formerly to produce lighter tobaccos, of finer tissue, in order to meet the demand for tobaccos capable of use as cigar-binders. Upon the whole, the yield average one, somewhat late ; that of Ontario is considerably reduced, and is restricted to planta tions of different seed-leaf varieties. The plantaof Burley is practically nil. In both Province the yield will be governed by the atmospheric con
ditions of the autumn and end of the summer Prospects are good, provided that there is mor ain, and that the autumn frosts do not arriv
oo early.
ONTARIO HORTICULTURAL EXHIBITION. The Ontario Horticultural Exhibition will be Toronto, November 10th to 14th. Favorable railrates, within a radius of 83 miles, ingey be pur chased from November 1.0th to 14th, good to return
until the 17th, these to include a coupon admisuntil the 17 th, these to include a coupon admiscents. Single fare tickets, on the certificate plan
may he bought from November 6th to 16 th, and
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## POULTRY.

DOCTORING FOWLS
A prominent authority on poultry states that
. To succeed in doctoring a stubborn case of sick ness of a persistent epidemis in his flock, is one of the worst misfortunes that can befall a poultry from the dollars-and-cents standpoint, for the poultryman to kill fowls as soon as they exhibit symp-
toms of disease than it is to potter about and toms of disease than it is to pott
As a general rule, this advice holds good. Unless a man can detect the trouble, diagnose the disease, and apply treatment, in the early stages o sickness, it is seldom that doctoring is of much
avail. If he manages once or twice to be success ful in checking a mild epidemic, or curing an individual case here or there, he gets into the habit of fussing about his fowls, dosing them up when they get sick, and usually ends up by getting his constitutions, predisposed to disease. A little knowledge of the different fowl diseases is essential to success in poultry-raising, but more as a means of detecting disorders in the early stages
than for applying remedies to cure the trouble The one fact that a poultryman wants to be able to grasp firmly is that, when once disease becomes established in his flock, the best thing he can do
is to use a good sharp hatchet pretty vigorouslv Is the long run it will prove more profitable than all the drugs in the world.

A PROVINCIAL POULIRY PLANT
In response to a petition presented some time
to the Hon. W. T. Finlay. Minister ago to the Hon. W. T. Finlay, Minister of Agri-
culture for Alberta, a Provincial poultry plant is culture for Alberta, a Provincial poultry plant is
being established in the City of Edmonton, on the Hudson's Bay reserve. Ten acres of most suit able ground has been leased for a term of years for this purpose, and a modern, up-to-date breed-
ing-house is being erected, with a capacity of from ing-house is being erected, with a capacity of fron
300 ta 500 birds, to be added to as conditions re quire. is the purpose of the Department to put in breeding stock of the various utility breeds. Trap-
nests will be used throughout, with the object building up laying strains, by selecting the most prolific layers from which to breed.
As soon as it is possible to do so, the Depart-
ment intends selling to the farmers and ment inteughout the Province, birds and eggs for breed ing and hatching purposes.
A suitable incuhator house will be erected, and A suitable incuhator house will be erected, and
the various makes of incubators overated. with the object of furn shing the most reliable informa-
tion possible as to the operating of the various machines.
As egg producers a mongrel flock of hens. if given a fair chance. will sometimes acquit themselves with
much credit in egg production. perhaps about as well as most of the pure breeds of fowl. for the very good
reason that most of our breeds of poultry have heen reason that most of our breeds of poultry have been
developed with more regard for type and fancy points developed with more regard for type and fancy points
than for egg laying. Morevever, the inbreeding and close line breeding practiced by many has tended to
reduce the stamina, which is after all a fundamental reduce the stamina, which is after all a fundamental
requisite of successful production. whether of eges. requisite of successful production, whether of rges.
milk or meat. Under these circumstances , he intro-
duction of a train of other blood often duction of a strain of other hlood often tends th in-
crease of vigor, and. indirectly. of egg production crease of vigor, and. indirectly, of egg production.
But if the pure-bred is not always a better layer than the scrub, she is usually a superior table fowl, as are
also the cockerels and pullets produced hy mating hor


The Technical Points of a Fowl


Saddle-ha
Saddle-hach
Sickles.
Tail-coverts.

## THE FARM BULLETIN.

THE FIRE AT UNION STOCK-YARDS
A fire at the Union Stock-yards, West Toronto, on portion of the cattle and sheep pens, causing a loss estimated at from $\$ 125,000$ to $\$ 150,000$. Fortunately, This being the slackest season of the year on this market. Only half a dozen cattle and 96 sheep were
lost. One dealer succeeded in getting out 240 head of lost. One dealer succeeded in getting out 240 head of
cattle uninjured. Seven new brick houses, mostly cattle uninjured. Seven new brick houses, mostly
owned by the Stock-yards Company, and occupied by employees, and valued at about $\$ 2,500$ each, were also restroyed. The company will rebuild without delay, but it is considered likely that the sheep pens will be thilt one story high instead of two, as in the case of ears has been gratifying to the company, and the


FAIR DATES FOR 1908 ronto.
August 29 th to Sept. 5 th.-Sherbrooke, Que. August 29 th to Sept. 5 th.-Sherbrooke, Que.
Sept. 2nd to 10th.- Nova Scotia Provincial, Halifa Sept. 11th to 19th-Western Fair, London.
Sept. 12 th to 19 th -St. John, N Sept. 12 th to 19 th --St. John, N. B.
Sept. 1 th to 17 th.-Giuelph Central. Sept. 18th to 26th.-Ottawa Centra.
Sept. 21st to 25 th.-Sussex, N. B. Sept. 22nd and 23rd.-St. Thomas Horse Show, St Sent. 22nd to 25 th.-Charlottetown, P.
Sept. 29 th to Oct. Brd.-New Westmin Sept. 29th to Oct. 3rd.-New Westminster, B. C.
Oct. 8th and 9th. - Kilsyth Agricultural Society. Kilsyth ov. 28 th Dec. 10th.-International Live-stock Ex Nov. 30th to Dec. 3rd-Maritime Winter Fair, Amherst, N. S.
Dec. 2nd to Math,-National Dairy Show. (hicago
Dec Tth to 11th-Ontario Provincial (Winter Fa The Ontario Crop Bulletin, based upon returns from correspondents, under date of August 15th, states that
fall wheat has yielded well, though, owing to wet. fall wheat has yielded well, though, owing to wet,
warm weather at harvest time, considerable sprouting occurred in stook. A fair proportion was cut early,
and harvested in first-class condition. Spring wheat and harvested in first-class condition. Spring wheat
was short in straw and thin on the ground, while the
grain is uneven in quality and yield. In Western Ongrain is uneven in quality and yield. In Western On-
tario the yield of barley has been large. In the Eastern part of the Province the yield has been rather
light and uneven, ranging from five to thirty bushels Ser acre in some of the former hanner counties, near the Bay of Quinte. Except in the St. Lawrence and
Ottawa counties, and in the northern districts, the yield of oats will be fully up to the average, and the
grain will be much plumper than last year. Rainy grain will be much plumper than last year. Rainy
weather while much of the crop was in stook threatened to injure the feeding value of the grain, as well as the has not been much in evidence, but a green aphis, resembling the turnip louse, was injurious to pea fields
in the Lake Ontario and adjoininur districts in the Lake Ontario and adjoining districts. Favor-
able prospects regarding corn come from every district The annual meeting of the romological and Fruitgrowing Society of the Province of Quebec will be held
at Macdonald College, St. Anne de Bellevue, Que., on at Macdonald College, St. Anne de Bellevue, Que., on
December 2nd and 3rd, 1908. A fruit exhibit will be
held. Prizes will be piven for hest five and twenty varicties, and best seedling for best five and twenty Growers about Burlington, N. J., state that the cranberry crop in New Jersey, as well as at Cape Cod,
is the poorest in twenty years for the fruit. I.ate spring frosts and oummer hailfor the fruit. Late spring frosts and summer hai
storms are attributed as the causes of the shortage. The Scottish Agricultural Commission, who are now
touring Canada, are trat touring Canada, are greatly pleased with Canadian agricultural institutions. They are reported as saying
that they would like to see such a college as the 0 . that they would like to see surch a college as the 0 . Fire wiped out the plant of the Canadian Packing Co., at Pottershurg, near London. Canadian Packing
day. The loss is placed at $\$ 12$. Dast Saturday. The loss is placed at $\$ 125,000$, of which $\$ 800.000$
whs tied up in stock. Insurance, approximately, $\$ 10$ -
$\qquad$



SEPTEMBER 3, 1908
THE PEACE MOVEMENT INTERNATIONAL
Editor "' The Farmer's Advocater :
Will you kindly allow me space to voice a few of my sentiments on this burning question of militarism ?
I do not agree with Neil A. Edwards, that Miss Watt reasons falsely ; contrarily, I think we ought to be
deeply grateful to her for the good work she has been deeply grateful her for the goow the has bee movement is international. Socialists, Anarchists, Mennonites, Friends, New-thoughters and Labor-leaders are simultaneously working for and advocating peace
in all countries. Only recently Mary Baker Eddy declared herself in favor of peace, which virtually means that 80,000 Christian Scientists are henceforth opponents of militarism. No nation need be atone in diss
arament, and when all countries have turned their 1 arament, and when all countries have turned their danger to any one country? It is self-evident that there will be less temptation to engage in war with
plowshares as weapons than when equipped with rifles plowshares as weapons than when equipped with rifles
and swords. Again, Mr. Edwards believes war to be inevitable, because the Christian Bible declaros ""wars, wars and
rumors of wars, will be to the end of the world." rumors of wars, will be to the end of the world.
This will illustrate my argument nicely, that war is a barbarous relic of superstition, a terrible tradition that ought to have been brushed aside and buried ages
since. We must not stiffe our humanity in the dicsince. We prophesies of any book. God has implanted more sacred than any Bible. It is, indeed, regrettable that Christianity, with the single exception of Islam, has been spread and propagated more than any other
religion by sword-point and bloodshed. But " even religion by sword-point and bloodshed. But even
Christians," I firmly believe, will one day realize the useless and unnatural cruelty of war. The "heresy", of non-resistance, taught by Jesus himself, is to-day
creeping into the church militant, and Christian mincreeping into the church militant, and Christian min-
isters are reading Tolstoi and Ernest Crosby. isters Mr. Edwards also asserts that "these Msiatics are just at present engaged in strong preparation for war."
Nothing of the sort ! They are merely arming themNothing of the sort 1 They are merely arming them-
selves, so that after the purpose and fashion of selves, so that after the purpose and ashion of
Christian nations, they may promote peace, by force if, necessary, and by independence and preparedness for The foundations of war are ignorance, superstition,
selfishness, pseudo-patriotism, and mistaken zeal. War selfishness, pseudo-patriotism, and mistaken zeal. War
cxists for the amusement of kings, the support of war ministers and offcials, the diversion of popular interest
from bad government and selfish political motives, and the providing of a market for weapons, and various the providing of a market for weapons, a also encourage
army supplies. Some newspapers may als it, because their circulation experiencos a phenomenal
increase in war time. War is allowed to exist because increase in war time. War is allowed to exist because people do not know the real horrors of war; because
they are quite willing to pay high taxes and to teach
their they are quite winn
their children that war is necessary and patriotic.
War filices have too much freedom in the declaring of War offices have too much freedom in the declaring of
war. Does the average Canadian know how brutally war. Does the average Canadian know how brutally
were Chinese women wronged by Christian soldiers in were Chinese wome wrong in the Transvaal strife British sentries were shot, by their general's order, for falling
asleep after a hard day's march? asleep after a hard day's march?
Middlesex Co., Ont. VERNE DEWITT ROWELL.

AGRICULTURAL, HORTICULTURAL AND VEGE. TABLE-GROWERS' MEETINGS AT TORONTO EXHIBITION
During the second week of the Toronto Exhibition
here will be a number of practical and interesting here will bee a number of practical and interesting Agriculture, located directly opposite the cattle-judging
ring. These meetings will be in connection with the Agricultural and Horticultural Societies, and the Ontario Vegetable-growers' Association. The Executive
of the Agricultural Societies' Association will convene of the Agricultural Societies' Association will convene
on Tuesday, September 8th ; that of the Horticultural Societies' Association on Wednesday, September 9th, and that of the Ontario Vegetable-growers' Association on Thursday. September 10th.. the meeting each day
being at 2 p.m. sharp. Short addresses on live subseing at 2 p.m. sharp. Short addresses on live sub-
fects will be given each day by those present, and all officers and members of the three associations named will be cordially welcomed at these meetings. Programmes will Le arranged for the annual conventions
of the above-named associations. An official of the Fairs and Fxhibitions Branch of tent each day, from 9 a.m. to 6 p.m. from Friday,
September 4th to Friday. September 11 th, and all nembers of the above associations are invited to make

THEY ALL WANT "THE FARMER'S ADVOCATE." ' ' have just taken your paper since January am taking, as every member of the family, even Advocate" as soon as it comes from the office out of a number of other papers. Wishing y very success. THOS. K. SMTH

This ymar therew will hie at mant ciyht standing field ensus and Statistics Monthly for August.

THE FARMER'S ADVOCATE.


Diagram of Siphon.
I have been trying to instal a siphon, constructed gas pipe, to convey water from well at barnyard pasture. The water in well is never lower than
feet from surface of around, and the fall from there point of discharge, 500 ft . distant, is about 25 feet.


Itchen Royal Rose
Fuernsey cow. First at Royal Show, 'Newcastle. DIAN STUDBOOK
working. If this is the cause of the trouble, the air
 in the pasture field so that air may escape; have ready above the funnel sufficient water to fill all the pipes without allowing any air to enter-that is, without stopping to get more water. When asture, close the ing freely out ine insert the plug above the tee, making it air-tight. Next. open the foot valve in the well. The water should now flow from the stopcock in the pasture whenever it is opened. In case you
fail the first time, try again, as these direction, if perfectly carried out, must ensure the working of the perfectry carried
siphon, provided there is no leak. Possibly a stopcock in the pipe above the tee would be more con-
con venient than the plug, for it could be more quickly
operated.
WM. DAY, O. A. C., Guelph, Ont. Lecturer in Physics.

FOUNDATION STOCK FOR NEW FRENCH-CANA.
the arench-Canadian Studbook which supersedes the old Quebec book now closed. The inspection was accomplished under the mmissioner by a commission of five mentwo representing the
Live-stock Branch of Live-stock Branch of
the Dominion Department of Agriculture,
two two representing the
French-Canadian Horsebreeders' Association, and a Veterinary In-
spector of the Health spector of the Health
of Animals Branch of the Department, who also acted as secretary.
The commission toured The commission toured
those counties of the Province where FrenchCanadian
horses are
reared reared. Th e total
number of animals inspected complying with the standard for the $\begin{array}{ll}\text { breed } & \text { include } \\ 1,000 & \text { head, about } \\ \text { all of }\end{array}$ which had to be more than three years old
when inspected. Such when inspected. Such
of these as are preof these as are pre-
sented' by their owners for registration will
form the basis of the form the basis of the
new studbook-that is to say, all further $\begin{array}{cc}\text { registration } & \text { further } \\ m \text { mst }\end{array}$ The pipe in well is $1 \pm$ inch, and the discharge pipe well about 4 feet above tee to fill the siphon, having a foot valve on well pipe and a plug for upper end of pipe. I have filled the whole pipe by this means, in
serted the plug. but still the arrangement does no serted the plug. . There are no leaks in the pipes that I can detect. What is the trouble, and how can I remedy Ans.-It is probable that you did not realiy have he pipe full of water, but that the water imprisoned


 and 近列rationt.


## A TRIP TO QUEBEC

(Continued.)
LAVAL UNIVERISTY, AND LE
CHIEN IN'OR CHIEN D' OR
We had some little amusement over the way by which we gained ingress
to, or, perhaps more accurately speaking, egress from, Laval Univer-
sity sity. We had been in the Seminary Chapel, and, coming out by a door
opposite to the one leading to the opposite to the one leading to the
street, thought to gain time by making a short-cut to the big building looming immediately to our left. We asked a workman who chanced to be
near, by what means we should enter near, by what means we should enter
the Seminary. He pointed to a
door, and in we went. Not a soul door, and in we went. Not a soul
was about, and at the end of five was about, and at the end of five
minutes we felt that we had most certainly got into a labyrinth or
maze from which extrication, inside of any reasonable length of time,
might be doubtful-corridors might be doubtful-corridors, and cor
ridors, and corridors; windows windows, and windows, set so high that y and bare walls, with everywhere
 rooms, these corridors, must be filled with students and black-robed pri
but we had either struck the sity in the vacation,
off to the celebration
whole place to
whole place to ourselver we had th footsteps echoed eerily versed the bare floors leadin
where in particular.
At last we found a girl cleaning
windows, who directed us to windows, who directed
corrtdors, these lined
old prints of Quebec in
and finally we emerged sarly das versity proper, where we discovero a few of the many tourists. whos
general "rubbery ? look had so familiar,
whose minus quantity in Fnglish as great as ours in French, but wh
tried hard to give us various point of information about the institutich
"Laval" is certainly a wondlers place, rich in historic interest
the wealth of art and other the wealth of art and other trea
ures which have accumulated withi
its walls. Its Seminary was foumblit n 1663
Bishop
nore in the Fortress
haps, than of any other man
1701 this first building was des
by fire, but was reluilt, and aga
burnt in 1705 .
Once more it
urnt in 1705
wholly demolished during the Britis
bombardment
part of the present
rected, but was no more than its
predecessor to be wholly free from
the atmosphere of war, for, behind
many of its doors-those closed doors
which we had passed in the long cor-
idors-were confined the American
fficers taken prisoners during the
the casks of liquor manufactured i Boswell's brewery; and away out to-
wards the mountains, four miles from the village of Charlesbourg (where the women and children found refuge at a later day, during the siege of
Quebec), you may still trace the Quebec), you may still trace th
ruins of the old castle, " The Hermi tage," with its walled garden, which was once the hunting-box of the un-
worthy Frenchman, and the scene of worthy Frenchman, and the scene of
his worst revelries. In this last spot was ${ }^{\circ}$ it that the beautiful squaw, Q wards murdered by the and afterthe affections of the wicked grea
man all to herself. Golden Dog: Honest Philibert, a yll of this overlord, this Bigot the more especially since the latter had established a trade monopoly which conflicted sorely with his business Again and again the two came ind
rectly into collision, and finally of sheer spite, Philibert placed the Golden Dog over his door. In re taliation, Bigot quartered more sol-
diers than were desired at the
 the whole affair was that Philibert
got into an altercation with Bigot's got into an altercation with Bigot
boon companion, the Count de Re
pentiony ly whom he was stabbed pentigny, by whom he was stabbed
to death. The Count escaped t Acadia, was pardoned, and finally
killed in a duel by a son of Phili hert. The story, as invariably tory, is told with several versions,
but the above is generally regarded The House of the Golden Dog, long morphosed into an inn, which, under the landlordship of one Miles Pren
tice, who had come out as a sergean tice, who had come out as a sergeant
under Wolfe, spleedily became one of
the most fashionalle hostelries in the city. Fashionable though it was however, it was destined to shelter
for a time, a youth who was fated
to breape than the worthy landlord could have
treamed. This was none other than
dren Captain, afterwards the famous Ad commanding H. M. S. Albemarle, spent a few months in Quebec.
And therel, And therely hangs another tale
While at the Chien dor, Nelson is
and Miles Prentice's pretty niece, a Miss Simpson-so much so that he reof his vessel's departure for the
purpose of clandestinely marrying
pher. The little plan was. however purpose of clandestinely marrying
her. The ittle pan was, however
frustrated by one Mr. Davidson, who probably hy reason of some especia interest, hestirred himsell to hav
the impressionatle captain seized by
a mody of sturdy tars and conveyed "hody of sturdy tars and conveyed
to his ship. ©ut of sight, out of
mind." seems to have been the rule with Nelson. At all events, we hea
no more, in connection with his name at least, of the wetty Miss Simpson
While the walls of 'Milibert' house were being demolished, in prep
aration for rebuilding, a curious corner-stone wa the letters "P. H.". with a st. An
Irew's cross between, and the date ate of lead bearing the following
a M $n$ tose



 mamempary


THE FARMER'S ADVOCATE

## TRAINING THROUGH PLAY.

 Mr. Kelso well lnown to many our readers for his philanthropic ef forts on behalf of neglected children, fler stating that There is nothing more important in the life of anycommunity than that the young hould have that the young affirmed his belief that if there was more play, there would be less to do in the straightening out of wretched
homes and caring for chifdren in Re-


Le Chien D' Or. (The Golden Dog.)
Facsimile o

- old tablet inserted
formatories.
Aromoter, in telling play playground said, by way of postscript to the ette-smoking have become amongst our lats almost a lost art," itatistics prove that where playgrounds exist there are fewer arrests. and less frequent need for the intervention of the arm of the law in the ven in the matter of neighborhood quarrels, we are told. "That they hot seldom begin with the children. speaking in this connection, a speak-


The City Man in the Country.


Who clatim to be in full possession of
our senses mavo learn a valuable le our senses may. learn a valuable les
son. It runs thus: sound mind and disposing memory Way of an erstwhile vacant lot, now last will and testament in order a
 approaching her, remarked. 'The men. Ihat part of my interest which is
noightorhood's thinkin' of writin' you ."That hand uren his hear, his i camnot shepe-tound volumes as my property
express it. Later, this letter ma- being inconsiderable and of no ai
terialized in a poem, eight verses
long, written upon a page torn from long, written upon a page torn from the ledger of a near-by saloon, and
it meant much to the Playground Lady, who had lived to see the children grow from the little
ones of the early sand-pits to ones of the early sand-pits to
the big working boys and the big working boys and girls
who come back in their brief holiday times, and offer ' to help.' "'
If what this dear "'Playground
Wady ", told of the great work of inLady " told of the great work of in-
fluence begun in the playground, but continued into wider fields of healt lebec. triumphs it has achieved elsewhere may we not all pray that similar suc-
cess may everywhere follow the cess may everywhere follow the tion," and the practical methods employed to provide wholesome foo
wherewith to mect the natural hung of the young ior " a good time" which are many more aspects unde which my subject could be considered
but space forbids my enlarging upo them, especially as I am anxious t occupy what remains of my column in quoting the last will and testa ment of one whom the world calle
" mad," but from whom, maybe, we -
count, I make no disposal of in this my will.

My right to live, being but a life estate, is not at my disposal, but these things excepted, all else in the world I now proceed to devise and bequeath

Item: I leave to children, inclus ively, but only for the term of their of the fields and every, the flowers woods, with the right to play among them freely according to the customs of children, warning them at the same time against thistles and
thorns. And I devise to children th banks of the brooks to children the banks of the brooks, and the golden
sands beneath the waters thereof, and the odors of the willows that dip therein, and the white clouds that float high over the giant trees. And
I leave the children the long. long I leave the children the long, long
days to be merry in, in a thousand ways, and the night and the moon and the train of the milky way to
wonder at, but subject, nevertheless, wonder at, but subject, nevertheless, ". Item: I devise to boys jointly all the useful idle fields and commons ant waters where one may swim ; all snow-clad hills where one may coast, and all streams and ponds where one
may fish, or where, when grim winter may fish, or where, when grim winter
omes, one may skate; to have and to hold the same for the period of heir boyhood. And all meadows, with the clover blossoms and butter-
lies thereof, the woods and their apflies thereof, the woods and their ap-
purtenances, the squirrels and birds, and echoes and strange noises, and all distant places which may be
visited, together with the adventures visited, together with the adventures
there found. And I give to said boys each his own place at the fireside at night, with all pictures that may be seen in the burning wood, to without any incumbrance of care." The only comment upon this which shall venture to make is to pass on
o you the question asked by the writer of the article from which I quote, "Will vou become the execu-
tors of this will? ".
H. A. B.

## The Quiet Hour.

UNCONSCIOUS ACTIONS
But when thou doest alms, let not thy
eft hand know what thy right hand left hand know what thy right hand
doeth : that thine alms may be in secret: and thy Father which seeth in secret hall recompense May every soul that touches mine-
Be it the slightest contact-get there Some little grace, one kindly thought One inspiration yet unfelt, one bit of $\underset{\text { For the da }}{\substack{\text { courage } \\ \hline}}$
For the darkening sky, one gleam of
To brave the thickening ills of life,
One glimpse of brighter skies beyon One glimpse of brighter skies bey
the gathering mists, And heaven a surer heritage.'
The text given above is a remarkable
one. It may be quite possible to give same house knows nothing about your action, but it seems impossible to hide
it from yoursell-the text dees not it from yourself-the text does not de-
mand forgetfulness, but unconsciousness. This command fits in with the account of the Last Judgment given by s
Matthew, where Matthew, where those on the right of
the King express surprise at the anthe King express surprise at the announcement of their kind actions, while
those on the left are equally surprised to hear that they have let slip their opportunities of doing kindnesses. It seenis to me that the only way ao-
tions may le absolutely unconscious is to make them habitual. A lame person,
who is painfully traing a few dificul who is painfully triking a few difficult
stops, is conscious of every one but most steps, is conscious of every one, but most
people walk without thinking of their Sters-walking has become a habit. l.eginner in the art of reading or writ-
ink. 18. With laborious effort, but when the

in at all hours to gee me are regaled
with any dainty that hapens to be at
hand; the grocer comes in for a cup of
 stores are her personal friends, though
she sellom knows this names.
As
me or me, all through my time of lameness she
even excellod her usual sell in the way
of heaping kind unses uper me. And she of heaping kindnesses upon me. And she
is perfintly unconsoious of all his. It
has become a habit with her, and her has become a hahit with her, and her
left hand is entirely unconscious of the
good deeds of her right. On the other good deeds
side of our side of our street a man is living whoss
harsh voice never seems to have a pleasant ring. I know nothing about him,
except the certainty that I know his except the certainty that 1 know his
habitual voice is far from kindly as he he habitual voice is far from kindly as he
calls out to his chillren on the street,
ordering them to con ordering them to come in. It seems
harrily possible that a man with such a
rude way of speaking can he mieasant rude way of speaking can be a pleasant
man to deal with. Yet he probably has man to deal with. Yet he probably has.
not the slightest notion that he is thait
ing in kindness.
Ho has spoken rudely
 and he does it unconsciously. Yet, if
the parable of the . Sheep and the
Goonts ${ }^{\text {an }}$ is true, we shall be rewarded tor unconscious acts of kindess, and pun-
ished for unconscious acts We are making the habits which will control us, and have the power of form-
ing good or bad ones.
It is the little things which make up the bulk of life
it is the little things which bring us init is the little things which bring us in.
to vital touch withour fellows, or sepa.
rate us from them. Alico Preston, in one of her delightful chats in the Ladies
Home Journal, tellis of a darky who lazy, but who could not possibly be
spared from the home of her Southern triend. This was simply because of his
way of opening the front door to visitors. She says: "He flings it back
wide, and smilies as though his one and supreme delight were to have people
come to the house. come to the house.
cannot
aford to
We certandy
without Uncle
 habit of welcoming people was quite un-
conscious to himself. Think of the way some mothers are pl1-
ing up these unconscious acts of kindness In the treasury of the King. He will
not lose one "up of cold water", wheld to a fretful child's lips by the weary,
smiling mother in the dead of night. He
never fails to notice when she lays aside never fails to notice when she lays aside
her work to join in a game of play or go off on some little outing to please the
children. And He sees, too, when she fails to seize the opportunity of doing a kindness, when she thinks that the credit of being considered a "ha
a
a first-class housekeeper

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value than the chance of getting into
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warm, uplifting personal touch with her
own family or neighbors. Dean Hodges
commends the
to the nurture of her children "athe
washings, the ironings, the sweepings, the
hakings, breakfasts, dinners and suppers-
these tasks which to some women are
the chief reasons for existence."
says: "For her the most important
room in the house is not the kitchen,
chamber which is the terminus of ral
ways, scene of building operations. .
parade-ground of infantry and cavalr
and battlefield of contending armies.


## With the Flowers.

BULBS FOR WINTER BLOOMING.
$\qquad$
sunshine for the winter, buy a few bulbs

veloped. The cellar should be cool, as if too warm the growth above is likely
to begin before the root-growth is sulf-
cient the result being spintly cient, the result being spindly plants, and
flowers choked in the bud. If the cellar flowers choked in the bud. If the cellar
is very moist a good watering on setting the pots away, and another, perhing the pots away, and anothe likely
haps, before bringing them up, is like
to be sufficient; otherwise a watering to be sufficient; otherwise a watering
every week or so may be necessary. Do every week or so may be necessary. Do
not, however, keep the soil too wet.
And, now here in the rut not, however, keep the soil too wet.
And, now, bere is the rule for knowing
when to bring the pots out when to bring the pots out of the cellar
into a warmer, lighter atmosphere. Turn into a warmer, lighter atmosphere. Turn
the pot upside down and strike the side the pot upside down and strike the side
sharply on something, so that the soil
will roll out in a ball-of course you will roll out in a ball-of course you
must keep your free hand over the sur-
face so that it will not face so that it will not fall out com-
p.etely. If the roots show in a white h.etely. If the roots show in a white
network around the outside of the soil
the bulbs are ready for removal; if not, network around the outside of the soit
the bulbs are ready for removal; if not,
put them back for a while longer. It is put them back for a while longer. It is
not absolutely necessary to bring up all the pots just as soon as ready; some
may still be left for later blooming. the pots just as soon as ready, some
may still be left for later blooming.
On bringing the pots up, keep them for a while at first in a room which is at
about 50 degrees $F$., and in which the
light is not very bright, then when
growth is well under way remove to a
place in which the temperature is about
60 or 65 (not more) degrees, and in which the light may be stronger. Freesias are an exception to the rule
that bulbs need to be kept in the cellar that bulbs need to be kept in the cellar
for a considerable time. The ony re
quire, in fact, a few days' darkness, be quire, in fact, a few days' darkness, be-
fore being brought to the living room.
They do not come very quickly They do not come very quickly into
bloom, but as the foliage is attractive
this is no detriment. Do not keep the this is no detriment. Do not keep the
soil very wet until they are growing
well, for fear of rotting the bulbs. well, for fear of rotting the bulbs.
Narcissus, especially the " Chinese Sacred Lily " and the "Paper White,
also need not be kept in the cellar as long as most bulbs, as they root quickly
after planting. They are among the after planting. They are among the
first to bloom, hut a succession may be
ensured by bringing the pots up gradua!ly.
Tulips should be left a long time in
the pots-until January at lenst the pots-until January at least. When
brought up the should be forced as
gradually as possible, with a very gradugradually as possible, with a very gradu
ally increasing heat and light. Don't
be in a hurry with bulbs, and don't be afraid to keep them cool. Rushing them
into a warm sunshiny place too soon is
responsible for more blasted buds than any other cause and don't be alarmed which are very showy among the diark-
over any bulb, tulip or other plant green foliace tho turhos vary in over any bulb, tulip or other plant green fivage. eight or ten feet, and are
which shows a litlle top growth in the from five to
cellar. Leave it there, growth or no of a hardy character. (freesias, Chinese and paper-white nar-
cissus excepted): a sturdy tip. of top
 ringing up, but see that the
good. Hyacinths, is good. Hyacinths, paper-white Har-
cissus, Chinese lily, and a fow the early-flowering trumpet daffodils, mat al ways likely to make so sturdy a grow al The hyacinths, when forced in this are placed in glasses manufactured for
the purpose; the smaller bulbs the purpose; the smaller bulbs are placed
on beds of sphagnum moss or peltedes an beds of sphagnum moss or pelbles
arranged to hold the bulbs in place mixed with a little charcoal to keep the water pure. Pour in water to come
barely to the root end of the bulbs keep adding as evaporation takes place there are signs of sta week or two starting bulbs in this way, put th and keep growing at all times toplace, just as though they had been
planted in soil. planted in soil. The Chinese Sacred placing in wator the Paper white after cissus coming next; other bulbs requiring
longer to root (some even several weeks)

# COLOR TABLE FOR THE MORE 

 EASILY-GROWN BULBS.White,-Snowdrop, White Crocus, Poet's
Varcissus, White Hyacinth Varcissus, White Hyacinth, Star of Beth-
lehem, White Tulips. Yehem, White Tulips.
Yellow. - Yellow Crocus, Daffodils, JonQuils, Yellow Tulips.
Blue and
and Srocus, Grape Hyacinth Mauve Single Hyacinth. Pink.-Red Tulips, Pink Hya-

## two ornamental bushes



## resting and instructive magazine, an

 teresting and instructive magazine, andhave thought that perhaps you would
jive me some information which I need.
ain very fond of heliotropes, and while give me some information which I need.
am very fond of heliotropes, and while
succed in getting very profuse blos-

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

THE FARMER'S ADVOCATE
A LETTER FROM "FAY." again, and to send your letter on to Dear Cousin Dorothy, -I have been in-
tending to write for some time-in fact,
have started have started two or three letters and the only vegetables (if they are vege-
tables) which never grow old. Peas, finished them. Thanks to your beans, cabbages, corn-all of them get
kind directions, I made some pie-crust
old and tough. In fact, in the city one the other day which mother said was all very seldom tastes them in their first
right. We have lots of ice and I set youth. I wish I had an Astrachan apme 1 pra pail on top of a cake and youth. I wish I had an Astrachan ap-
ple. Your letter makes me quite hun
the
packed the sawdust around it to get it packed the sawdust around it to get it
good and cold. I don't believe any of good and cold. I don't believe any of
the girls ever made tougher crust than the giris ever made tougher crust than
some I made last winter. I am prety
sure W. A. N. would not have wished sure W. A. N. would not have wished
anything to do with the eating of it. I anything to do with the eating of it. I
don't think I would like to be the
youngest of the family, but would not youngest of the family, but would not
mind having an older bro, ther.
Doesnn't ice cream taste good these hot Days? I think every farmer should have anys I think every farmer shousa
an ice-house, and put in lots of ice every
winter. Hasn't this been a very hot,
dry summer ? For a len tion dry summer? For a long time we had to water our garden every evening, but
we have not done so lately. It is really wonderful the way the weeds grow when
everything else is wilting. If the vegeeverything else is wilting. It the vege-
tables only did as well, what a splendid tables only did as well, what a splendid
garden we could have! What is your garden we could have! What is your
favorite vegetable? I believe I would
rather have the tomato. I am eating rather have the tomato. I am eating
an Astrachan apple at present. Do you get any? We have two trees of them,
and sometimes we are and sometimes we are afraid the little
ones will make themselves sick, but they
don't seem to hurt them. My little brother is very proud of the fact that Scott began his professional career at

## fan to inhale it. For a few moments hey seemed seized with an unusual glad

 (ili) to the kround, overcomeme ny the
## The Young People's Department.

[All lettars for Young People's De-
partment must be addressed to Cousin
Dorothy, 52 Victor Ave., Toronto.] partrent
Dorothy,
52

GOD OF THE OPEN AIR
a with fowers benaato Thy And get Thine altars everywhere-

 Thoul who hast taken to Thyselt
 And on far intands, where the tite
visits the beauty of uutroden hores


$\qquad$ -Henry Van Dyke.
discoveries made by accident. There is an old and true saying that
necesesty bute there is onother fact quite as true,
that ceriden tis halso the mother of many great discoveries.
In their sarach tor gold, the anciont In heir ssarch or mon, treat number

 Chioroformu which has proved such a


 curred through its careless use
Other scientists joined him in
his



 dsame. and were begiming to feel a good As one of them was poking atout the
Gaboratory to see it he could find any.

 lobed upon more as an euriosity than $a^{2}$ Thatres an ithe of it into each of the and fives the wise of chlorrotorm as an an anes
 and
 it inw whe tyre oro was presed tor seemed to hime copathe of sert ind the pury
 the work ko tricenvely hivi". worknen

"Chums.
(Photo by Sallows, Goderich
some corn he planted and took care of the tender age of ten years. He weighed
himself is taller than me. I have 51 pounds, and stood 3 feet 4 inches stopped at five feet three, with no ap- One can imagine the amusement and aspearance of getting any taller. tall, as it who attended the annual Caledonian

would rather be short than | takes quite a bit more to dress a tall $\begin{array}{l}\text { sports at Dunedin, New Zealand, beheld } \\ \text { this child appear on the track to com }\end{array}$ |
| :--- |

 around here the lust year or two. Some pionship. There were sixteen competioi them are very theme, and would light tors, the favorite being J. Spence, the on the handle of the plow when the men champion, who stood 6 feet 4 inches, and
were plowing last fall. Some of them had yet to meet defeat. Spence took
have nests in the hogpen loft, and seem the lead at the start, with the boy stickhave nests in the hogpen loft, and seem the lead at the start, with the boy stick
to think 1 am intruding when $I$ go up ing to him, and giving spurt for spurt in search of eggs. I don't see how any Two laps from the finish the child sho
hoy or man can find pleasure in the de- to the front, and, in a dazzling exhib hoy or man can find pleasure in the de- to the front, and, in a dazzang exhrol woods. If you are still taking members or the "IDumb Animals' Protection Soyoll may put my name down. The Governor of the Colony then an .ll. This letter is getting very long and day be the champion of the would on
the and
are wanting help, with the churning, the crowd took up a collection arder Allust close. wher on the spot. Fortunately for the futur
$\qquad$
proceeded to arrange for a series of exproceeded to arrange for a series of ex-
hibitions at different cities in New Zea land. The two made a twolve months tour, the boy meeting and defeating the
best men who could be found to wall best men who could be found to walk against him. Afterwards, the young
champion sat down and waited for the pedestrians from England and Australia to come along, and one after another he age of 12 he won the New Zealand sevenmile championship, doing the distance in 52 min .6 sec . Shortly after, he wo the 100 -mile championship, and thus, at
the age of 12 , was the best walker in the age of 12 , was the best walker
the Antipodes at all distances from two to a hundred miles.
It was about 1880 that the craze for day-and-night walking, then at its height in England, reached New Zealand; and
at the age of 15 Scott won the first big at the age of 15 Scott won the eirst big
24 hours' walk, and tn the three succeed ing years he won no fewer than 22 contests, at from 12
among his victories $\begin{aligned} & \text { hours to six } \\ & \text { being }\end{aligned}$ among his victories being one over
Arthur Hancock, the English champion, who happened to visit New Zealand. In this race Scott waiked 724 miles in 12 hours. Then he went to Englana, an world for 12, 24, 48 hours or six days,
walking 12 hours a day. Finally he walking 12 hours a day. Finally he
offered a prize of $\$ 500$ to any man who offered a prize of $\$ 500$ to any man who
could defeat him at any of these distances. Three men accepted, each choos ing a different distance; but young Scott
defeated them all. A little later he defeated them all. A hittie later he ship for six days' walking, beating 7 men, not one of whom could make Scot extend himself. Nevertheless, he cov ered 363 miles in the 72 hours, which
remains a world's record. His best
 miles, $17 \mathrm{hrs}$.40 min .; 220 miles, 48
hours. $\quad$ These facts are given in the hope that our amateurs, after studying them, will come to the conclusion that Scott walked far enough and fasן
enough, and that there is no occasion enough, and that there is no occasior
for them to try to improve on his per formances.-Mail and Empire

THE GOOD OLD SUMMER TIME
How hot some people make you feel ! I have a particular lady in my mind uncomfortable. Between each mouthiful at every meal, she lays down her knife and fork, sighs deeply, fans herself, and to be five minutes in her company on a warm day without feeling a consuming desire to get into a refrigerator. you flee to anothers room, the distance. No doubt she is unfortunately constituted so that heat hurts her more than it does stronger people, but 1 can't help thin
ing that she makes herself more uncomfortable by thinking about it. At any rate, she might let other people try and keep up their innocent little fiction that it is really not so hot as is was which most of us foel in these days to meet
every new arrival with that stale reevery new arrival with that stale re-
mark: "Dear, me! how hot it is!" mark: "Dear, me ! how hot it is !"
And both of ue feel a little more uncomfortable for saying it. It
Do Do you know, I think it is people who
are off in holiday resorts trying to get cool are off in holiday resorts trying to get cool
who really feel so hot. There is a great blessing in having something to do, if we could realize it, instead of grumbling. I don't believe a girl feels a bit worse
when she is wrestling with her SundayWhen she is wresting with her Sunday-
school class on a hot alternoon than she would doing nothing at home, and wishing the day was over. You would think
there could be nothing much worse than working every day in Eaton's or Simpson's, and coming home at night to sleep in a little close room on some know lots of girls who are doing that, and looking pretty tired, too, I never heard one of them complaining of the hot weather. They are always thinking the evening, and planning Saturday afternoon excursions. And, it is just these girls who turn up on sundays at church mer, while their rich sisters, who have nothing to do all the year round, find religion too heating for four months in Moral: Forget yourself and keep cool

## The Ingle Nook.

## Stencilled Curtains

Dear Dame Burden and Chatterers All,
-I've never written to the $-\mathrm{I}^{\text {ven }}$ never written to the Ingle Nook
before, but have always enjoyed reading the. letters, and have received some good
suggestions from them.
Now,
information. I would would like some information. I would like to stencil
set of curtains for our family living
room. I think room. I think linen-colored scrim,
cream cheesecloth, would be pretty cream cheesecloth, would be pretty ster
cilled in the "Greek key ", pattern i "old blue," a sot dull shade I mean. What do you think about it? What would you use for the dye, and how curtains on brass rods, without tying them back. Which do you think would be the better length, just below the mid-
die of the window or to the edge of the die of the window or to the edge of the
sill? If you or anyone can give me any $\begin{aligned} & \text { suggestions } \\ & \text { obliged. }\end{aligned}$ shall be ever so much
MARGARET. I understand that stencilled curtains will wash nicely if the operation is very carefully done. First shake all the dust off the curtains, then wash by "sousing"
about in a lather made of tepid soft about in a lather made of tepid soft
water and white castile soap; no strong soap should be used, nor should the cur trains be washed on a board. Rinse through several waters and dry quickly
in the shade. In time, of course, the in the shade. In time, of course, the
colored portion may fade a little, but if you have kept the stencil recoloring will be an easy mat
think your Greek-key pattern would There are two methods of stencilling There are two methods of stencilling;
some use Diamond or other dye, some
turpentine tinted turpentine tinted with artists' tube paint
In either case, put the material over In either case,
it The curtains should be mate
sugar of lead
or salt rheum
are it must be surname
protected by bimmpes
Rick all the pimples as som en "an
apt
hot a ter er
Another good medicine to kemp by ...
a bot le equal paris on mem than try ut.
and thy m



About the House.
It is understood that tops and ja ll
been thoroughly sterilized
nature


SOME SEASONABLE RECIPES of 3 eggs, then add 1 tablespoon $\begin{array}{ll}\text { Pry success, I am, Yours, } \\ \text { Brant Co., Ont. } & \text {. Nook er }\end{array}$ this am very sorry the publication Am delighted to been so long delay interest in botany. "N Joker ". It my favorite study, so let me sh with yo
recipes.

Cheesemaking.
Dame Burden, - In a Brant Farmer' Wife's letter to you on the above sub sect, I should perhaps suggest some in
provement which I think would te I would only heat the milk to 88 in stead of 95 , and would put, in the color say a pint of water, diluting it with stirring. I should also recommend put-
ting in the buttermilk before using th rennet: the buttermilk before using the water. After the milk has coagulated, and
good test to know when it is ready to use the first finger of the right hand and insert it into the curd in a slanting position, and should the curd break clea
$\qquad$ curd into squares of, say, about to cut the
inch square in of a neh square, in preference to breaking it whey shows signs of coming, gently raise he temperature of the curds and whey
o 98 degrees in the spring or early summer, to 100 degrees or even higher
$\qquad$
$\qquad$
$\qquad$ book until very soft 8 lbs. grapes and sweet cream, 1 tablespoon softened eve, return to kettle and add 4 lbs. spoon made mustard, 1 teaspoon agar, 1 quart vinegar, 1 tablespoon each $\begin{aligned} & \text { and a dash of pepper. Beat well } \\ & \text { ground cinnamon and allspice, and } 2\end{aligned}$ each addition, then set the wis. ablespoons ground cloves. Boil till pan of hot water on the stove and Grape Wine -To 1 gal mashed Grape Wine.-To 1 gal. mashed grapes
dd 1 qt. boiling water. Let stand over ad i 1 qt. boiling water. Let stand over
hight and strain.
To every gallon of juice add 3 lbs. white sugar, drop a few pieces of toasted bread in to hasten fermentation; stand in a cool place until
finishes fermenting; bottle and seal. Unfermented Wine.- Put in a granite stemmed Concord grapes and a peck or les after reaching the boiling minhen strain. To every 2 quarts juice
dd a small cup sugar and boil 5 min les. Pour into sterilized bottles and Wild Plum Jelly Ste 4 m er 1 quart water until tender, then strain through a jelly bag. Measure the juice, nd to each pint allow a pint of heated agar. Let the juice cook for a while,
then add sugar. Test it at short inter hals, and, as soon as it begins to "set" Masses Plum Butter. -Put the plume ter Plum 13utter.-Put the plums left over
jelly-making through a sieve, add an dual quantity of sugar, and cook int il thick as desired. Spice to taste, and Grape Jam --Pulp the grapes, putting hins in one basin and pulps in another boiling point. put through the, bring to add skins and measure. That a colander. Stewed Tomatoes.-Scald ripe toes and remove skins. Cut the tomas. for 30 minutes, then add to every quad
1 tablespoon butter, and seasoning pepper and salt. Stew until of the so thicken ness, or add cracker cru Baked Garden Squash. Cut hot. in pieces, remove seeds, and thebe squash
$\qquad$
ter.and scrape the salsify. Keep under water as much as possible while scrapfor a few minutes to whiten vinegar cover with boiling water, and brain salt minutes, adding a level teaspoon sit and a squeeze of lemon after the
first 20 minutes. When tender. drain e cut into pieces, cover with white sauce To Rake Potatoes Properly, -Wash well, scrubbing with a small brush. Wash well,
Place in Shake after the end of about 20 minutes With a fork, but squeeze with the hands in a clean cloth, to see if they are done
when soft, crack each in one pace serve immediately, wrapped in a napkin
$\qquad$
and
$\qquad$
2and
$\qquad$

$\qquad$
$\qquad$

Autumn Days,

POWER LOT
A Story of "Down East


not, you might fall."
tenderly down to earth. were full of rare tyunches of lilacs, and she did not care. ." I'ooh,"' she
remarked,
I'm spry. Skipper himself, rigging up the
well-sweep near at hand, laughed indulgently, "You, Rol, Hilton," he exclaimed "You, Rol, Hilton", ho excla imed
Yunnin an huggi", ga de jest a
soon as ye chap eyes on her. Me


 self,
you,
then
ther
,
 ". Ye never felt so much as yer con-
a temporary absence of front teeth, science vexin' of ye, Skipper, but and an old-world gravity of caro
what ye'd wake me up an' start me for $\begin{aligned} & \text { resting on her small snubbed face. }\end{aligned}$ She sat on the Ditmorse the camfire bottle. But women is She sat on the Ditmarse doorstep, worl' knows." "n men, as all the but sturdy legs plainly adapted for ". She took on dretful, dretful, when that toilsome and trial-beset path to Rob meaningly: "We was afeard "Hello, Roh,", she cried, and the
she'd lose her reason. Wal", wal'" grin she gave him through her exhe went on, tenderly, withdrawing posed gums declared openly as day
his eyes from Mrs. Skipper's down- that her heart was in his keeping.
cast face. I've had ter do it, Rob. "Hello Rhody ", replied Rol. with cast face, " I ve had ter do it, Rob. "Hello, Rhody," replied Rob, with
Come the season, I couldn't stan' it reciprocal affection. "I see you've T've been a-painting an' ballas'in' of got the cows home and the work all

She norlded sagely. " Red Suke's
gittin' to be a breecher," she said. Rob knew that this meant a cow
that jumped and broke fences, and he received the news with sympathy. But father says he's goin' ter rig
up a poke on her ter-morrer 't 'ill fix her, so she won't iump no more
fences." Rob was sitting on the doorstep at
Rhody's side hy this time and the little girl put up her hand and whispered confidentially:
" Mother an' Father
's a-havin' words inside thar'." The sound o
voices in the kitchen indicated that they were not only having words, but loud ones. ." Mother says Grammer's goin' ter come here ter live, an' Father says
she ain't. neither-but Mother can heat Father every time.". sighed
little Rhody contentedly, little Rhody contentedly; " "an'
(irammer c'n come, I guess, pore, lonesome ol' crittur." Rhody's tone
was such a faithful reproduction of the whine of some charital)le elder lirmed a bearer of life's burdens, Rob
actually felt a sense of edification
$\qquad$
$\qquad$
$\qquad$

as borned, an' it's only fair she
h'd have it back ag' in. Ef God
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


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of all skin, scalp, hair
and complexional
trou bles. It is not
any longer necessary to "outgrow" a pim-
pled and blotched face, acem ine ine in anitumation SUPERFLUOUS HAIR Moles, Warts, Red Velns. etc. We cure
and remover
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28. Bell) 5 , octaves, suitable for church or school ;
real snap Estev, 5 octav Evans Bros.. 6 octaves, piano


* 1.5
sheep-weed 'round here. Bet ye,"
she suddenly challenged him, with
grin, for the dome of her thought she suddenly challenged him, with a
grin, for the dome of her thought
was Shakespearean and embraced was Shakespearean and embraced
romping joy, as well as stern delibromping joy, as well as stern
eration and bravely sustained sor-
row. © bet ye a candy suckker I c'n tech 'Pompey Rock afore you kin.' The young man and the little girl
sprang to their feet and ran like victims of spasmodic insanity, purover fences, down steeper bluffs, scampering out to where the tide had left Pompey's Rock as the solemn and
tremendous goal of their endeavors ourse, Rhody touched it first, Rob looked out for that, and made a
great show of panting forth his humiliation and defeat. ain't tuckered a mite. Wal',"' she sighed thoughtfully, "I had my spree, an' now I must go beatin' in "What is that?" said Rob, as humble inquirer, and unashamed, Rhody ever imparted her wisdom genthe unenlightened
n', or a bawlin', ary one,"' said she Rob pressed the penny for a candy
sucker into her hand. "You won the bet, Rhody
tin' is needn't ter pay it, Rob. Bettin' is only jest f'r fun. Ef you'd couldn't a paid ye, for I didn't hev no penny." She handed it back,
but Rob looked hurt and shook his head. closing a very hard, red little fist over it, "it won't go, for no suckker;
it'll go to'ds gittin' me a meetin'
". What
No: I'd ruther have one, Roblike the heathin ef I didn't hev no I'd never heern tell on. sech a thing as a Lord's Supper. dispute don't know-I don't want know much about it,", said Rob, tectively : "but, somehow, I should so hard for so generous, and work fittle girl, too, and giving your grandmother your own plate with the mountains and cataract, and all; and Rhody-I can't explain-but I honest believe if God had a supper table he'd it, honest, "Ye'd ought to know," said Rhody Yar-r-rk. But I wouldn't care where
I set to the supper., Rob', she added ," ${ }^{\text {so }}$ with interested in the surbect, and Rhody's own. 1 . hose continued the fearless Rhody vas Shakespearean, and whos stuck at English. "s'posin' ve sh'd spop lite Aredged out and improved for navi ho
language, " tell they started down an' fetch ye, Rob."
Thus, mutually secure in th mazes of the here and the the he comrades parted, Rhody mak path along and Rob continuing his the sun had not reached its en - reached its setting.


## I HEARD THE SPIRIT SINGING

I heard the Spirit singing in the ancient
caves of Work:
"You are playing, Man-child, playingt
where the evil demons lurk ;
Yet 1 would not have you falter or count the zest for sport be lost,

So toss the ball of empire, with its
fatal coat of fre,
fuggets with the
pangs of hot desire
nd blow your filmy bubble
bright face of the sal
Tho' bright face of the sun,
your playing-day is done.
Go, spin your humming-top of Thought
or brood with sullon li
As you scrawl upon the canvas or load
the merchant ship: Come, tell some old,
hearse some ancient creed,
with many a lisp of wonder draw the
music from the reed
Let your playful hand in cunning de-
And in long hours of frolic guess the
secrets of the sky ;
peep with curious longing in the busy
underbourne,
Where microscopic beings are playing in
" And raise Love's swaying ladder to the
And walk heights of woes; $\begin{aligned} & \text { dizzer desert places where the } \\ & \text { oren }\end{aligned}$
Where the Mans and thistles grow,
and holds his quivering breath
As he meets within the shadows his last
heard the Spirit singing: " Laughter
is the strongest prayer,
And the zest of faith is measured by the
And the zest of faith is measured by the
mirth that tovs with care
$\qquad$
$\qquad$
$\qquad$
Current Events.

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GOSSIP ackneys. and medals, representing winnings at the leading Canadian Exhibitions, as well as the
International at Chicago, more particularly on home-bred stock, bears evidence to the standing of Messrs. Hodgkinson Canadian exhibitors
 mimals into the exceptionally hing it is just as trass
mat up of so bufire was a their entry made
ult on of Clydesdale Hes (which, by the way, is their spe-
alty), and possessed of so much asy), and possessed of so much of that
ash quality, as those of this year's en-
nccounted for by the ry, accounted fo
ral of them are ful show horse and gire, for whe therlour years at the head of their stud,
Noyal Baron (imp), show and breeding sons of the greatest am, Royal Queen, is a half-sister to the Scotish champion, Royal Gartley, being ired by the champion Mount Royal, and
0 on, all down the line his breeding representing very many champions and
sires of champions, and his own show ecord bears out the old breeding adage
that like begets like, as his widat are First at Ayr, second at Royal, irst at the Highland, second at Roynner of the
Cawdor Cup; first at Toronto in 1904 and 1905 , first at at Thicago in 1904, first
and
with four of his get. Toronto ith four of his get, Toronto, 1906 ;
rrst, Toronto, 197 .
He was never in better bloom than just now. Look him
ap at Toronto. Second in service is Mackenzie 4798, bred on the farm, sired Foremost (imp), dam Royal Princess
2345, by The Royal Standard (imp.). He is a horse of great substance and (imp.). finning and action are well-nigh fautless. Baron Lad 7172, is a brown two-oar-old,
a wonderfully nice-turned son The Thistle (imp.). This colt, in sweetand oeautiful, botylo, quality throughout.
as certainly the and
Queen (imp.) 14072 , by Prince am by Baron's Pride, is a bay two-var-old, a coming champion, if not this
ear. as her combination of size, style. uality, smoothness and perfect action $\begin{array}{ll}\text { re very } & \text { seldom met with in any one } \\ \text { nimal. } & \text { Baron's Quen } 12985 \text { is a bay }\end{array}$ wo-year-old Canadian-bred filly, by Royal ( mp.). This filly is up to a a very big ine, and a model of perfection; a winner
Maple Dale Daisy 15562 De ther bay Canadian-bred two-year-old, by same sire, dam by Erskine Style
She.) is a grand quality of filly,
 a bay yearling, by Reyal Baron, dam
(Gaiety (imp.), by Frywality
 In aye, Royal Rose 15563 , is a bay filly H1y the same sire, dam Moss Rose.
by Bllucher. She is a superb foal, and At the head of the Hackensys is the
Toronto first - prize winner Imp Kennwn. the bay son of the great horse, Q


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The wear of a garment depends on the quality of wool from which it is made. Underwear may be PURE WOOL, and ALL WOOL—and still shrink, ravel and wear out in a single season. Because the underwear is not made of good wool in the first place.

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each. We must have ho-, 'ers. Changing the name from one member of the household to
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## Fall Exhibitions!

We will require a number of good circulation canvassers at all the leading fairs this fall, and would like to hear from any of our readers who have the time and ability to take hold of this work in earnest. Hustlers, whether men or capable boys, can earn big wages. Write at

The Farmer's Advocate,
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toronto.
LIVE stock
The total receipts of live stock at the aty and junction markets for the week
ending August 28th, were as 340 carloads, containing 5,659 cattle, 3,124 hogs, 5,234 sheep, 327 calves, and The quality of fat cattle was, taken altogether, fair, but there were many of the common to medium classes, especially at
the city market. the best cattle at a little wirmer prices,
but the lower grades remained about but the lower grades remained about
steady At West Toronto on Monday, August 31st, receipts of cattle were 1,705, qual-
ity fairly good, trade inclined to be be ity fairly good, trade inclined to be
slow. Prices about steady for butchers',
but a little lower for exporters. but a little lower for exporters. Export
steers, $\$ 4.80$
s. butchers', $\$ 4.75$ to $\$ 5$; loads of good,
$\$ 4.25$ to $\$ 4.50$; medium, $\$ 3.90$ to $\$ 4.25$; $\$ 4.25$ to $\$ 4.50$; medium, $\$ 3.90$ to $\$ 4.25$;
common, $\$ 3.50$ to $\$ 3.75$ cows, $\$ 2.75$ to
$\$ 4 ;$ canners, $\$ 1.50$ to $\$ 2 ;$ milkers and
springers, $\$ 30$ to $\$ 55$ each; calves

$\qquad$ oo $\$ 5.60$, with the bulk going about
$\$ 5.20$ to $\$ .35$, light exporters sold at
$\$ 4.75$ to $\$ 5$, bulls sold at $\$ \$ .75$ to $\$ 4.40$


 Feeders and Stockers.-Trade for feed-
ers and stockers was duil. Feeders, 800
to 950 , sold at $\$ 3$ to $\$ 3.50$; light stock-
ers, $\$ 2.50$ to $\$ 3$. Milkers and Springers.-Receipts fairly large; trade steady. Prices ranged from
$\$ 30$ to $\$ 55$, with two or three of extra quality at $\$ 60$ each.
Veal Calves.-Receipts light, prices
firmer at $\$ 3$ to $\$ 7$ per cwt.. the bulk firmer at $\$ 3$ to $\$ 7$ per cwt., the bulk
selling from $\$ 4.50$ to $\$ 6$ per cwt.
Sheep and Lambs.-Receipts larger, Sheep and Lambs.-Receipts Iarger
with prices lower for lambs and higher
for sheep for sheep. Export ewes sold at $\$ 4$ to
$\$ 4.25$, rams at $\$ 3$ to $\$ 3.25 ;$ lambs, $\$ 5$
to $\$ 5.75$ per cwt. Hogs.- -Receipts moderate. Prices were
reported by packers as being easier. Selects sold at $\$ 6.50$, fed and watered at
the market, and $\$ 6.25 \mathrm{f}$. o. b. cars at country points.
breadstuffs.
Wheat.-No. 2 white winter, 85 1tc.; No.
red, 85 c .; No. 2 mixed, 85 c . Mani-toba-No. 3 northern, $\$ 1.12$, at lake
ports.
Rye.-New, 70 c., at outside points. Peas.-Nominal, at outside points.
Ooc.
Oats. $-N 0$. 2 white Oats.-No. 2 white, new, 39 c . to 40 c .
outside: old, 45 c . to 46 c ., outside. Corn-No. 22 yellow, 87 c to 88 c .. To
ronto freights. Barley.-No. 2, new, 57c. to 58 c .; No
BX. 55 c . to 56 c . Bran.-Scarce, at $\$ 20$ to $\$ 21$, in bags Shorts.-Scarce, at $\$ 22$ to $\$ 23$, in bags Flour.-Ontario 90 per cent. patent.
$\$ 3.30$; Manitoba first patent, $\$ 6$; second COUNTRY PRODUCE. Butter.-Receipts larger, but prices re-
main about steady. Creamery pound rolls, 25 c . to 2 gc .; separator dairy, 22 c .
to 23 c .; store lots, 21 c . to 22 c .
 Honey.-Heports from dealers go to
show thater show that this year's crop of honey
both large and good. Prices easy, a
9c. to 10c. per lo., with a prospect still lower quotations. No quotations
for combs, as aroducers are asking to
hi for combs, as producers are asking to
high prices to suit the dealers.
Eggs 20c. to 21 c .
Poultry - Market firmer. Spring chich12 c .; old fowl, 10 c . to 11 c .
Potatoes Potatoes.-Prices by the load fron
farmers' wagons, are easier, at 60 c . to
 Hay- Maled, in car lots, on on track a
Toromto, firmer, at $\$ 9$ to $\$ 10$.

More people would put their savings in the Debentures of this Company if they realized the simplicity and safeness of this form of investment. It merely means that one deposits a certain amount-any sum over $\$ 100-$ with this Company for a period of time, not less than one year, preferably five years, or less if desired. The der receives is a promise of the Company to pay

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There are four grate bars in the
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Each one can be
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$2^{1 / 2} \& 4^{1 / 2}$ H.-P. GASOLINE ENGINES Few working parts. Well - balanced, smooth-running motor.
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Professor of Field Husbandry for the Manitoba Agricultural College. Initial salary, $\$ 2,000$. Applications will be received up to September 2oth by
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at the toot of the class. at the foot of the class. ""An impres-
sion is a dent in a soft spot."


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QUESTIONS AND ANSWERS 1st.-Questions asked by bona-fide sub. chlop.


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cylop.
2.
sistent 2. Sow thistle may be killed by per
istent cultivation in istent cultivation in the same way
indweed, though it is not so hard subdue as the latter weod. It iard portant to prevent seeding. We have never heard of a sow thistle with blue
flower, and are inclined to think the ower, and are inclined to think the
weed thus described is chicory. If so, it may be controlled by cultivation, and not particularly troublesome in cultivated field

CEMENT FOR SILO.

1. How many barrels of cement would
high, 12 feet across, and sloping from and a cement silo 25 fet
high eight inches thick at the bottom to four at the top?
2. How much cement would it take to 2. How much cement would it take to
cement a barn $44 \times 66 \mathrm{ft}$ ? 3. Which is the best for cement concrete, fine or coarse gravel ?
A CONSTANT READER. Ans. -1 A CONSTANT READER. Ans.- .
3. This question is not specifically pressed. Does it mean laying floors and building walls, or laying floors and plas-
tering walls, or what? ering walls, or what ?
4. The coarser the gravel the harder W. The coarser the gravel the harder
will the concrete be when mixed in any
given proportion, but there should be in given proportion, but there should be in t enough of sand or fine gravel to fill TREATING INJURED TREES. to spare from burning, but the fire reached both, one flaming right up the tree, while it ate round the roots of the
other. A few green leaves appeared in the top of the former, but later have nearly all disappeared, while the latter
has no leaves on branches has no leaves on branches, but is
sprouting out from the body of the tree 1. Should the limbs be removed from this latter tree, and if so, when would 2. Is there any hope for the other tree
5. another year, and could anything be done
that would be beneficial? Ans.-1. Yes. Spring A LeARNER.
best time, though it be safety now, or at any time be done with were coated over with wax.
6. Likely not, but it had better be left until late next spring at least. No
other treatment would be of much use. FEEDING A FOAI
I have a filly foal, now on the
mare, which $I$ am about to wean. mare, which I am about, to wean. It is
a fine big Clyde colt, but a little thin, owing to the dam being a poor milker,
and I would like to know through your and I would like to know, through your
valuable paper, the most satisfactory valuable paper, the most satisfactory
way of feeding it ready for the spring way of feeding it ready for the spring
shows, without causing grease or
scratches on its limbs. scratches on its limbs.
7. How many pounds of hay should it 1. How many pounds of hay should it
have, and what kind, timothy or clover,
cut

$\qquad$
clover and alfaffa seed infested with this
peruicious impurity
8. 

Advertisers should
BINDWEED - SOW CHICORY THISTLE -

1. I sent you a plant of which I found

## TRADE TOPICS.

 " Itead advertisement of Steel Trough and Machine Co., Letd., Tweed,big reduction in steel hog troughs."
-
Note the special bargain announcement
in another column of Winchester and in another column of Winchester and
Marlin rifies, by Messrs. Warren \& Ellis, 302 Yonge St. Toronto.

Messrs. J. Crouch \& Son, of La FayCo. Indiana, noted importers of French exhibiting under a tent at the Toronto argest Belgian stallion in the world This great horse weighs 2.600 lbs ., and is the, champion Belgian stallion of
America. It is generally true that an external
remedy that is good for an animal is also good for the himan body, and Gom-
bault's Caustic Balsam is no axcention 10 this rule. In fact, we sincerely be-
lieve that there is no liniment or external remedy on the market that is as
good or as safe and reliable to apply to the human body as Caustic Balsam. We We
can safely recommend it in all cases where an external application could casene
fit. It is also cheaper according to cost fit. It is also cheaper according to cost,
because it requires very little, and that
ittle is effective htte is effective-(Editorial Horse Re
view. Chicago. July 14,1908 .

Stanchions and watering bowls for lacturers, the Metal Sthingle and Siding
Company, Limited, of Preston, Ontario Company, Limited, of Preston, Ontario,
who claim to have had more experience and to have spent more money in per-
lecting these lines than any n Canada, and are prepared firm ive their customers the benefit of their
oxperience in fitting stables, old or new, in a satisfactory manner, and at lowest cost for quality. See their ad-
vertisement and
write for
samples and the maritime stanchion.-During the past few years-or we might say
decades-there has been a marked imfrovement throughout the country gen-
crally in the manner in which cattle are housed and looked after. In our col
imns elsewhere will be found an advertisement of the "Maritime Stanchion," manufactured by the Bailey-Underwood
Co.. Ltd.. New Glasgow, N. S.
This stanchion has been on the markel how for several years, and on account of
he increased comfort which it gives the attle, as well as the cloanly condition ,rogressive stuckmen. The simplicity With which it is operated, and the safety
fives it an additional value, and we reclimernd our readers to investigate the
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2

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We are showing a superb Exhibition stock of Gourlay, Mendelssohn and McMillan pianos. To display them properly our wareroom must be emptied at once of every exchanged piano, every returned rom-rent piano, and every piano that is not new style even though not actually used. Prices have been列 second and third choices in case the first should be sold before your order is received. Remember, we guarantee every instrument, ship subject to approval, and agree to pay the return freight if not satisfactory.

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If monthly payments are not convenient, quarterly, half-yearly, or other convenient payments may be arranged. Every instrument is fully guaranteed for five years. A handsome stool accompanies each strument.

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TORONTO, CANADA.

| REDUCFD RATES TO TORONTO via Grand Trunk Railway system, on account of Canadian National Exhibition. Return tickets will be sold at single fare from all stations in Ontario to Toronto, good going August 29 to September 12. Returning from Toronto on or before September 15. Low-rate excursions will also be run on certain dates, particulars of which can be ols- | GOSSIP <br> At the auction sale of Berkshire hogs by Drs. Still \& Laughlin, at Kirkville, Missouri, on August 19th, an average price of $\$ 149.95$ for 50 head, is reported as realized, seven boars selling at an average of $\$ 67$ and 43 sows at an aver age of $\$ 158.50$. The high average for sows was largely secured by the sale of Duchess 279th, the World's Fair cham- | at $\$ 2,000$. The sellers made an offer of $\$ 600$ for the choice boar pig from her by Masterpiece, which greatly stimulated the bidding. Another sow was bid off at $\$ 1,012.50$. <br> Widow Innkerper--Do you know what people are saying about you and me? Widower Iodger-No, what is it? Widow - Well, they are saying that we are going to be marriad. Widower-Don't you be- |
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Requires No Paint.
Brantford "Crys tal" is becoming immensely popular as a fire protection for pitch roofs. It is soft and flexible, yet very durable Saturated and coat ed with fire-resist ant materials. Will adapt itself to changes of temperature without crack ing or crumbling An especially good roofing for dwelling houses.
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Write for our big handsomely - illus which deals book oughly with the roofing question It's worth reading.


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This roofing is one of the most astonishing wear-resisters in the world. The basis of Brantford "Asphat Roofing is a specially high-grade of wool felt. This felt is not only completely saturated with Asphalt, but Asphalt is, by pressure, literally forced through the sheet, so that no single thread can possibly escap s proof thoroughly impregnated with this marvellously durable compound. Brantford "Asphalt" Roofing soften under BRANTFORD ROOFING CO., LIMITED, BRANTFORD, CANADA.

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This is acknowl edged by roofing experts to be the BESTRubbe Roofing on the narket. Light,yet phenomenally durable. The saturating compound is a mixture of asphalt and mineral rubber wich completely waterproofs the sheet. Acids,gases, apors, heat and cold have no effect on Brantford "Rubber " R o of f n g . With it there is no sweating or "ripping," as with metal roofs, Get samples from 1 s and compare it with others

GOSSIP. The Secretary of the Alberta Wool
growers' Association growers' Association reports that siz
teen flock-owners in the Lethbridge di trict, from their 52,000 sheep clipped this year approximately $390,000 \mathrm{lbs}$. of that the clip will average seven and half pounds per head, or 390,000 ths. of nearly means a put will probably, while the mutton out that amount, making the sheep industry a very important factor in the produc of that in
domain.

Mr. G. B. Muma, Ay
ing a change in his
Large Yorkshires, writes: sows for sale, bred to importade som also some to a Canadian-bred boar: als moar and they are from an importe
bour and ans sow. Also som young sows about the same age from
imported and Canadian-bred sow. The
sows that are bred are due to farrow ows that are bred are
he last of September tober. Have about 50 young Yorkshires for sale
A noteworthy example of what can be accomplished in breeding high-grade shee on properly - controlled open range is
that of Allen Bros., who graze about thin the Uinta national forest in Uta These bands' are the increase of about Roo head of prizewinning stock from the ational Show at Chicago, purchased and mported to Utah by Allan Bros. since 1892. They have been grazed within the inta national forest since 1903, sheep-grazing purposes, being well wat ered, grassed, and shaded, and protected from the grazing of other sheep. Care-
ful breeding is developing a pure-bred tul breeding is developing a pure-bre
type of Cotswold entirely adapted to Western range conditions, yet equal anything raised under fences in the East-
crn United States or in European coun-



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IThe KELSEY Warm Air Generator with the Zig-Zag Heat Tubes is the only warm air apparatus that will accomplish these results even under the most trying conditions.
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WINNIPEG, WM.

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gossip. Mercer's clydesdales A recent visit to the model stock farm of Mr. T. L. Mercer, near Markdale, Ont., and a careful inspection of his new importation of Clydesdale stallions, sus Cained his contention that in his stablea at the prosent time wera as choice a lot,
and as royally bred a lot, of big, quality Clydesdales as ever crossed the wator,
the property of one man. In looking them over we were particularly imthem over we werp particularly im-
pressed with their smooth, well-balanced conformation, their grand quality of bone, ankles and feet, and their straight,
true action, characteristics that together true action, characteristics that together
make the ideal horse. The honor of first mention easily falls to that wonder-
fully periect type of modern draft horse, fully periect type of modern draft horse,
Breadalbene (imp.), mo brom six-yerrold
son of the invincible Hiawatha, dam
som son of the invincible Hiawatha, dom
Lady Gartley, by the noted Royal Gartley. In our opinion Breadalbane never got what was coming; to him in the
Canadian show -rings; and as a sire he is proving one of the best this coun-
try has ever seen, absolute proot of which is seen in the two yearling horse
colts now in Mr. Mercer's stables, the one is Royal Albon, a bay, out of Louie's
Queen, by Imp. Louie; the other is Lou
 Carrick. This last colt has five regis-
terred dams. Here are a pair of yeartered dams. Here are a pair of year-
lings, the equal of which we have seldom,
in ever seen betore. either imported or or if ever, sen before, either importedo. or
Canadian-bred. They are unbeaten in
Cat
 Luck (imp.) is a bay-roan six--yar-old
by Gold Mine, dam Nellie Scott, by The Scott. Ho is a typical draft horse,
smooth to a turn, beautifuly finishod,
 lan (imp.). is a dark brown four-year-old,
oy Lord Fauntleroy, dam Mis by Lord Fauntleroy, dam Miss of Noran-
bank, by Dae Ye See. This is cartainly a very high-class horse, with plenty of size, wonderful quality and faultess ac-
tion, a show horse of high order. Watch tion, a show harse of high order. Watch
this horse at Toronto.
Royal Clendrio (imp.) is a bay three year-old, by King's Royal, dam Carina, by Craigmore Darn-
ley. This will make ley. This will make a very large, thick
horse, with abundance of bone of the right kind, well-sprung ankles and grand teet. A typical drafter. Mona's Rocket
(imp.), is a bay three-year-old Shire, by Cresiow Rocket, Cham Edeyrn Colonel, by Calthorpe Gold. Ho is an immense
big coltho on a ootom of splendid qual-
lity, which at Toronto last winter won Ity, which at Toronto last winter won
first in his class, and was reserve for frrst in his class, and was. reserve for
champion. Look up Mr. Mercerr's stable champion. Look up Mr. M
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the Toronto Exabibition.

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of qualiaty trom the ground up, a oott
very hard to fault trom his superb top

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things Ayrshires that ane a number of doink splendid yield. For
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very many winnings, and as a sire he have received ns a present a thoroughly

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GOSSIP.
Kinellar lodge clydesdales, SHORTHORNS, COTSWOLDS AND.
BERKSHIRES. Kinellar Lodge Stock Farm, so long and favorably known as the home of one Canada's choicest herds of Shorthorn Ssaac, of Markham, Ont., is still retaining its popularity in the hands of Mr . John I. Balsdon, one of York County's leading breeders of Clydesdale horses, Shorthorn cattle, Cotswold sheep, and Berkshire swine. That Mr. Balsdon is a breeder of extra good stuff and keeps his the fact that for years at the Markham show, acknowledged to he the leading county show in Ontario, he has generally
won the lion's share of awards in the various classes in which he exhibited. In Clydesdales just now he has for sale two exceptionally choice Canadian - bred
fillies, Queen Arthur 8475, a bay three-year-old, by Sir Arthur (imp.), dam by Sir Walter (imp.), and Lady Hiscol 9657 , a bay three-year-old, by Baron Primrose re a pair of big. good fillies, just the ind the market demands. In Shorthorns the herd is a mixed one, Rachel Among them are some very heavy and persistent milkers, of which Mr. Balsdon is very proud; and, justly development indicate more than the usual profit at the pail. The Scotch end of the herd is represented by Snow Beauty Reauty is a daughter, imported in dam,
by First Choice. Then there are several other daughters and granddaughters, the bulk of the herd being the get of
Imp. Rustic Chief, Prince of Kinellar,
Champion Beauty, and the stock bull, Champion Beauty, and the stock bull,
Lothario Lavender $=59053=$, by Gay Lothario (imp.); dam by Mina Duke 3rd
$=13304=$ He was an exceptionally
He choice animal, and was never beaten in
the show-ring. For sale are several The Cotswolds have long been recognized now numbering about 50 , of which ther
are for sale 9 shearling ewes, 9 shearling are for sale 9 shearling ewes, 9 shearling
rams, and this year's crop of both sexes.
and Tom 18958, from imported sire and dam. Several of the brood sows are daughtery of Imp. Danestien anywhere represented b choicer specimens of bacon-type Berk-
shiset shires than in the Kinellar Lodge lot. sows from three months to one year of
ape. Write Mr. Balsdon to Markham

QUESTIONS AND ANSWERS. Miscellaneous.

LAMENESS IN MARE drove ny mare 12 years without
She has excellent-looking legs Last autumn a bog spavin developed. I applied a mild patent blister; I also let her rest. she goes now with little
lameness, but is stiff; is 22 years of age, but looks more like 10 years. Is blister-
ing merely a palliative? What should ing merely a palliative? What should
I do? She was never bred Would she breed now if she got the chance? Ans. - In most cases of bog spavin of but a few months' duration the lameness
and stiffness can be cured by repeated blistering with two drams each of
biniodide of mercury and cantharides, mixed with two ounces vaseline. Clip
the hair off the parts, tie so she cannot the hair off the parts, th tho blister daily
hite them, rub well with the ror two days, and on the third day wash ofl with warm water and soap and ap-
ply sweet oil. When the scale comes ofir tie up and blister again, and if necessary repeat again. Cases have been reported
of mares over. 20 years old breeding for the first time, and it is quite possible
yours may, though the chances are slim.


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Monthe Wiil sell at a bargain
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## GOSSIP

GRAHAM BROS. NEW IMPORTATION
.OF CLYDESDALES AND HACKNEYS.
NESA

Bros., of Claremont, importation, Graham landed a class of horses that will doubtless carry off a big share of the red and Ottawa this fall; a class of horses that will surely be greatly admired by Cana-
dians for their great size and flashy quality, a tribute to the superior judgment
of the junior member of the firm, Mr Tho the junior member of the firm, Mr Thos. Graham, who made the selection in
Scotland. They will be on exhibition at
Torento . Moronto, where admirers of the beautiful
in horsefesh will be given every facility for inspecting them. Prominent among the lot is the brown five-year-old, Gen-
ral Vasey, by Amiability; dam by Sir cral Vasey, by Amiability; dam by Sit
David. This is without doubt one of
the very best horse ada, a horse of perfect mould, with a seldom seen in a horse of any breed.
This This, coupled with his flashy quality,
strong, flat bone and true action, makes him a model of equine perfection. Baron superb quality is unsurpassed by any horse of any breed, and his stylish,
proud carriage, and light trappy action at once commands and holds the attention of onlookers. He is certainly a
marvel. Sired by marvel. Sired by Baron's Pride, and
dam by Woodend Gartly, his breeding is in the purple. But probably the coming
champion of the lot is the toy two year-old, Lansdowne, a son of the grea
Everlasting; dam hy Fitz Gallant. Everlasting; dam hy Fitz Gallant. He
is a cott, now in his two-year-old form,
17 hands high, and built in proportion: massive, smooth, and intensely sweet of
mould, and, withal, is possessed of a
mole mould, and, withal, is possessed of a
vast amount of quality, and moves as
true as a straightedge an Look up thi true as a straightedge. Look up this
colt at Toronto. Coming down in age the pick of the yearlings is Baro
Sceptre, a bay, by Baron's Pride; dan
hy Prince Romeo. He is a colt hy Prince Romeo. He is a colt of
superb quality, and will make a high-
class show horse. General Favorite, a blass show-horse, General Favorite,
brown to--ear-old, by Airies Prince,
dam by Royal Favorite, is a massive, dam by Royal Favorite, is a massive
thick, heavy-quartered colt, on an ideal
bottom, and will make considerable ov botom, and will make considerable over
a ton horse. Bonnie Doon, a bay thre
year-old by Be year-old, by Baron Allister, dam by Eas
field Stamp, is one of the sweet-turned
stime field Stamp, is one of the sweet-turned
stylish-quality sort, that moves with tha
trappy trappy action that makes one keep look-
ing. Boreland Chief is a brown three-
$\qquad$

SMITH \& RICHARDSON'S NEW IM
PORTATION OF CLYDESDALES. In point of substance, fashy quality
tion of Crydestate stallinan and alliee
just landed, by the well-known firm o
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excels any previous importation made by
this firm. Their many friends and
this firm. Their many friends and
patrons are cordially invited to look up
their stable on the exhibition grounds,
where will certainly be seen a class
where will cortainly be seen a class
horses that will
horses that will please the eye and
cheer the heart
cheer the heart of lovers of man's mos
noble friend. Following is a short de
noble friend. Following is a short de
scription of a few of the many now on
scription of a few of the many now on
hand: Prince Ascot is a black two-year
old, by Ascot, dam by Prince of Princes.
He is one of the kind so much admire
by Canadians, clean, flat, flinty bone
covered with beautiful silky hair, a styl
ish carriage, and a faultess mover
ish carriage, and a fautless mover
Dunure Peeble is a brown two-year-old,
by Baron o' Buchlyvie, dam by Marcellus,
royal breeding, and a royal colt.
year at the Royal, in a strong class, h
was placed fourth, and when finished win
certainly be a hard nut to crack in an
certainly be a hard nut to crack in any
company, as he combines size, style
quality and straight, true action, to a
remarkable extent. Danure Acknowledg
ment is another bay two-year-old, by
ment is another bay two-year-old, by
Baron $o^{\prime}$ Buchlyvie, dam by Baron'
Pride. He is the making of a show
horse that will be up to a a a sreat show
and of fashy appearance and superb qual
ity. Maiden Hall is a bay two-year-old
by Baron's Pride, dam by Montrold
Matchless, a colt of exceedingly
Matchless, a colt of exceedingly smooth,
even conformation, full of draft char-
acter, and standing on the grandest
quality of bottom, a characteristic that
has made this firm's importations noted
the country over, for above all thin
Messrs. Smith over, for above all things,
the proper kind of must have
Che proper kind of bonichardson muskle and have
and straight and true action. Dunure
Allan, a bay two-year-old. by Dung
Freeman, dam by Lord Lothian, is
are good kind, with plenty of size, char
acter, and quality galore. Ho will make
a great show horse. Rab the
a great show horse. Rab the Ranter is
dam by Macgregor. This colt is a half,
brother to the great horse, Silver Cuat
being out of the same dam. Hilver Cup,
He is an
intensely sweetly
ity characterized in his every with qual

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one of imported and Scotch-bred cattl of the thick, early-maturing beel kind, and the big, deep-bodied milking sort
that for so many years have proved so proftable an investment in tne hands of up-todate Canadian breeders. None but
the best mported bults have been in us
in this herd which now in this herd. which now are practitanly
all in call to that prince of stock bulls, all in calf to that prince of stock bulls
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Leicester sheep are among the best in Canada, year after year producing a Cumber of the winners at the leading ception. The crop of lambs are a choice lot, showing a phenomenal growth and a superb type. For sale are a number and two year old ewes of grand quality and type, all of
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great length of time, without a break. great length of time, without a break,
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yarut to cost, the best possible sires, and ingsing new blood in the female breed-
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anceptionally lo large trade enjoyed by and the
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James Douglow, farm, Mr
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OUESTIONS AND ANSWERS Veterinary.

UNTHRIFTY COW After cow was on grass for some time her feet became sore and she failed is Desh and milk supply.
Ans.-She probably has ${ }^{\text {a }}$ A. Soul in feet," which is caused by standing in or walking through irritating substances, as liquid manure, wet ground, rushes, etc. Keep her in a clean, dry stable; apply hot linseed-meal poultices to the feet until soreness ceases. If eruptions occur dress three times daily with carbolic acid, 1 part; sweet oil, 20 parts. Feed well and give a heaped tablespoonful of equal parts of sulphate of iron, gentian ginger and nux vomica, three times daily

## FARDEL-BOUND

Heifer was brought home from pasture two weeks ago. In a week she began to
fail, refuses food and water, breathes jerky, and emits a grunt when breathing.
When lying she is very uneasy Ans.-She has impaction of the third stomach, and it is doubtful if she will
recover. Give her $1+$ pints seed oil. Give 2 drams nux vomica three times daily. If her bowels do not oil and 1 pint treacle, give 1 pint raw until her bowels act freely. Continue the nux vomica, and keep her strength
up by drenching her with boiled flaxseed BLOODY MILK.
Heifer is very hard to milk, and there appears to be a soft substance in the
teats that moves up and down as she is milked. At first we noticed bloody
specks in the milk, but now the milk is bloody all through, and clots of blood are forced out when we commence to
milk. Ans-The blood escapes from the small
vessels, which become ruptured during vessels, which become ruptured during
milking. The vents of the milk ducts
are very small, are very small, hence the trouble in milk-
ing. Various methods are recommended ing. Various methods are recommended
to remedy this, but it is seldom they are successful. Probably the safest treat-
ment is the insertion of little plugs slightly constricterd in the center, in
order that they will not fall out These are left in between milkings, with the
idea of dilating the opening. I belipve plugs made of putta-percha can be pur
chased from dealers in veterinary ind Chased from dealers in veterinary in-
struments. or they can be made of hard-
wood, made very wood, made very smooth. Treatment is
not often successful, and unless very carafully conducted will set up inflam-
mation of the parts and complicate mat-
tars tors. I would advise you to allow her
in go dry and fit her for the butcher. fatality in cow Cow moped for two days and she
Cailed in milk supply. She then inenced to breathe very hard, and there
seemed to be a rattle in hir thron the refused food, but drank freely. Saliva
Howed from her mouth
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## Hampshire Down Sheep.

SPLENDID MUTTON GOOD WOOL, GREAT WEIGHT.

This highly valuable
ENGLISH BREED OF SHEEP is untivalled in its rapid and
WONDERFULLY EARLY MATURITY, hardiness of constitution, adapted to all climates, and in quality of
MUTTON AND LARGE PROPORTION O
LEAN MEAT IS UNSURPASSED. LEAN MEAT IS UNSURPASSE
Full information of
Secretary, Hampshire Down Sheep Breeders' Assoclation, SALISBURY, ENGLAND.

Wo have found our finest inspiration, you
and 1 .
Toiling up the hill called Have-to, with
Conpulsion for a guide,
We have made the sort
 While our dearest foe, Born-weary, seized
with joy each poor exuse.
Vot behind us unrelenting. drove our heartless master, Must,
Ando our teet essayed not lagging, spite of
hill or heat or dust. It was there we grew the sinews for the Near the Town of U1p-against-it, in the
land of Root-or-die. Near that village, Up-against-it, in the
land of Root-or-die. W. you and I posslititues undreamed of
Were there heartaches in that fourney? A. Little, then, our master cared, that stony hishway under whip rrad-and-butter trudged besides us, with That should quicken halting footsteps if
we loiteren on the road
隹 lured us on with myriad wiles-
the master's welts were painess as 0 the hamlet, Up-against-it, in the
land of Root-or-die.


Men should look for this look for on Chewing Tobacco. It guarantees thehigh quality of Black Watch

The Big Black Plag.

OUESTIONS AND ANSWERS Miscellaneous. ALFALFA QUERIES-COLT
SIDLES IN HARNESS.


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And a few very high-class Shorthorn bulls and heifers. Any of which will be sold a And a few very high-class Shorthorn bulls and heifers. Any or which will be,
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yearling rams and ram lambs, by imported sire and
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 AND COLLIES! champion wether, over all breeds, at
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HOLLYROOD PROFESSOR. Long-dilatance telephone. FAIRVIEW SHROPSHIRES

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toot, also ot the oldeest and most reliable flock io
Canada. We now offer for immediate sale, Hoct

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Yearling rams and yearling ewes. All bred
from imp. sire and dams.
rice reasonable.
E. MORGAN. MILLIKEN, ONTARIO

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 and shropshire sheer
Express charges prepaid. Pedigrees and safe de
w. E. WRIGHT, GLANWIORTH, ONTARIO

Maple Leaf Berkshires som sibind vaw Pigs 10.12 and 13 weeks old, both sexes. Lengthy, well marked, larg JOSHUA LAWRENCE, OXFORD CENTRE, ONT
 not akin. Bred from imp. and Canadeks old, pare, poirs.
Also yours.

Als. | Young stock never better. |
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| Ayt, C. P. R.; Paris, G. T. R. |



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JAMES WILSON \& SONS
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SUNNYMOUNT BERKSHIRES $\underset{\text { GLENBURN }}{\text { GERD OF }}$ O Orkshires For Sale: A few bars fi
for heavy service:
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MJOHN McLEOD,
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 A. A. COLW/LL. Newcastle, ont.

Pumps Vim Into Worn-Out Men



OUESTIONS AND ANSWERS Miscellaneous

REGISTERING CROSS-BREDS.

 lot mo
paper. paper.
Ans.
 discontinued

ALSIKE POISONING
Mare, 4 years old, with two white fe locks, running on alsike clover, has go
poisoned, breaking out on the white parts; is swelling up stif on it; has been sore
Please let me know what
$\qquad$ a purgative ball composed of six dram
of aloes of aloes and two drams of ginger. Feed
only bran till purgation commences. If
this fils this fails to purge, repeat the dose in
48 hours. Wash the legs with a five per-cent. solution of Zenoleum, or of car-
bolic acid. LARGE CRAB GRASS AND OLD In reply to the New York State cor of plants for identification, we beg to say that No. 1 was in such a poor sta
of preservation that of preservation that to make sure of the
name we shall require a more name we shall require a more perfec
plant-one that is in flower preferred 3 the old witch large crab grass. These plants at generally found in waste places a
nound buildings, and are spread
gardens bund for instance, in manure, on the sole
a person's bol ground is wet and the soilly sticken to
boot, and by birds, etc. The most
cessful method to type is hoeing and cultivation, for by
taking away the moisture fron
$\qquad$
FERTILIZER FOR WHEAT. 1. What kind of commercial fertilizer
would you recommend for fall wheat ? would you recommend for fall wheat ?
2. Are such kinds as those advertised
in your in your paper inspected by a Govern-
ment inspector? ment inspector?
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would be suitable under averager act
350 lbs acid phosphate.
120 lbs . muriate of potash.
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Dysentery, Diarrhoea, Orampa Colic, Pains in the Stomach, era Infantum, Sea Sickned Summer Complaint, and an Fluxes of the Bowels.
It hae been on the market for 63 yeart.



COUPLE OF DOSES CURED of hors. W. J. Wilson, Tessierience in thesk., torle "I wish to toll You of the good I hame found in Dr. Fowler's Extract of WiMh Strawberry. Last summer my little girk,
aged two yearr, was takken ill with Sume
mor Complain, mor Complaint, and as my mother alwast
lopt Dr. Fowler's in the house when I kopt Dr. Fowler's in the house when I
Wwa child, I moemed to follow her exam plo as I always have it allow. I It oneos
gave it to my baby as directed and sho at once relieved, and after a and sho weuple
doees ware takean

CEDAR LODGE YORKSHIRES

 0. CoLuns, Bowesville $P_{i}$ O., Ontarlo.

WILLOWDALE BERKSHIRE HERD

J. J. WILSON, PROP., MILTON, ONT.
$\qquad$
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$\qquad$
$\qquad$ proposition, "Suppose I had ten dollars
and went into a store to spend it. Say
I bought a hat for five dollars. Then I
spent two tat spent two dollars for gloves, and a dol-
ar and fifty cents for some other things. mow much did 1 have left?", For a noy's hand went up. © Well! Isaac, how
nuch did I have left? ?." Vy didn't
$\qquad$



[^0]:    Brick and Tile Machinery. Yard Supplies,
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