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out knowlenge, and especially is this Where prejudice or bias of mind inducu cond mnaticn. Ry Massing unfavorabl the person or article condemned, but b vision by looking at only one sidepe question and thus fostering preit th The prejudiced mind is incapable of judgment.
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## Che

# Farmer's Xidvocate ........... and fome Jragazine. 

## EDITORIAI.

## Prepare for the Fairs.

The honest efforts being made by exhibition managers in this country, in deference to public moral point of view, and to make them usoful and helpful to all the people, as well as attractive and entertaining, should, be loyally encour-
 he benefit of farmers, by fostering improvement of the type and quality of live stock, and o agricultural products generally. It is with this view that they are aided by grants of public money to be expended in prizes for the purpos the best in all lines of agricultural and industria ffort, and it must be acknowledged that to the fairs system is largely due the credit for the steady improvement and dissemination of high class pure-bred stock throughout the country The offer of liberal prizes in the early days of agricultural societies served as an incentive to the importation of first-class stock, and its infu cnce, like that of leaven, has spread until the re motest parts of the Dominion have shared more or less in its benefits. In those early years a first-class agricultural fair, pure and simple, was sufficient to attract a large attendance, both of country and city people, but with the institution of special industrial exhibitions in large centers came the introduction of extraneous attractions and amusements calculated to increase the crow of attendants, and which certainy for a time had that effect, though at the expense of the useful ses and wholesomeness of the exhibition, either Unfor agicultural or an industrial advantage innowately, the deleterious infuence of these but spread was not conined to the larger shows, well-nigh spoiling their usefulness by turning the attention of the people mainly to the race cours and circus performances, while the useful feature of the fair were neglected. Happily, a proper purposes of the fair has dawned upon the mind purposes of the fair has daw pon the mind fair boards, and the programme of the fair is again on the up-grade, most of the degradin features having been eliminated from the bill of fare of the leading exhibitions, and in their stea have been introduced wholesome and helpful fea tures, which are not only interesting and enter taining, but also educative and elevating. A before intimated, the public should show its ap preciation of these improvements, encouraging the disposition to take higher ground, not only by attending the fairs and taking the family along as far as practicable, but by preparing something in the way of exhibits to contribute to th volume of good things shown. Though the time is now short in which to prepare some classes o exhibits for the earlier fairs, there is yet ample time to get ready entries in many classes, and thus to strengthen the show in a practical way While the early summer drouth in some district will militate against a strong show in some clas es of exhibits, it is gratifying to know that thes conditions apply to only a limited area, and that in by far the greater portion of the country the tion and the prospects for corn and roots very
encouraging. In the time intervening between how and the dates of the exhibitions, more particularly the larger ones, stockmen will be giving the inishing touches to the ive-stock exhibits, which, in keeping with the healthy condition of that great industry, will be of a very high char

## Looking Upon the Haryest

As the grain crops stand just before harvest, an excellent opportunity is afforded for noting the individuality of different heads of grain Ruery ouserver has noticen the great difference in plants growing in a fiela, and the idea of selecting the best of these heads for seed has resulted in remarkable success. Considerable efrort has if late wech put forth in increase vicias by the introuuction of hew warcties, bul such work shourd onty be supplemental to the judicious best specimens of grain in the selectedtots In 1902 the Provinces of Ontario New Howniek Wanitobe and the Nothest Winck 03569,450 bushels of whent from 3710007 acres. This was an average of 252 buchels per acre a romarkably hich averace for such a per acreare, but if with increased care in the selec tion of seed sown on all this area the yield had been increased by one hushol ner acro (a wery small increase according to the results obtained in the Macdonald seed-grain competition), there would have been added to the total amount wheat in these Provinces $3,740,007$ bushels, repro senting at least one and one-half millions of dol ars, and that without any material additional cost, such as would accompany the harvesting of this amount if grown on additional land. The matter of increasing the yield of a grain crop hy one bushel per acre is a smair matter, if viewed from an individual standpoint, but when the increase extends over a whole Province the result is at once so obvious as to attract atten tion.
Progress in the development of the productive fower of grains must necessarily be slow and steady, rather than sudden or spasmodic. Tho power to produce large yielas is a characteristic that must be developed in plants by careful breeding, with selection having that object in vew. An the corn states arge appropprations are made to enable the experiment stations to carry forward the work of breeding corn and to the lish practical instraction are the the lie or carcur se thath kreatest adncen fow whe morm ing during the next ew years win the in that cr or sods cultivation and managenent The nectiod the farming community now is not much more land or phenomenal varietics, but an intelligent and determined ofort to improve the crons already grown, not only of grain, but also of roots grasses and fruits. Thorough cultiva tion should not be neglected, but should be mor assiduously studied and practiced, in conjunction with the selection of the best of seeds for future crops.

It is estimated that the losses of cattle and sheep in Montana during the big storm in May will amount to nearly $\$ 5,000,000$. In some seg ranges perished.

Consolidating the Empire's Trade. ublic thought in Great Britain was lately firred as it has not been for a generation, by the deliverances of Hon. Joseph Chamberlain, the ember of the Government upon whose departnent devolves the relations of the mother country with the self-governing "Dominions Beyond the eas," such as Canada, Australia, New Zealand, India and South Africa. Since the jubilee of our ate lamented Queen Victoria, and the colonial conerence, coming down through the unifying vents of the South African war, and the realizafion of the vastness of the agricultural resources nhe Canadian West, of its resources generally, ublicists industrial possibinities, statesmen and scanning with serious and studious eyes the horiof the future.
Considered in all its world-wide parts, the British Empire is the most marvellous product he worl has en-strong, progressive,解 entiment, fraternity, business and freedom. Canada contributes nothing to the Imperial naval mine and she to mars and for the most art, her ose nown her will A happy-ro-lucky policy European she Oriental deapots would regard it but in its fexibility lies it safety. Can it always continuo hus? What the present dult or tendency? What will the future evolve? How will the iverrent interests of the outlyine portions of the Empire, as they grow in power, be harmonized so as to preserve the unity of the whole and keen race with rival nations? Wrapped un in these enquiries are vast fiscal, colonial and imperial problems that are perplexing the most sagacious tatesmanship.
We find our Empire confronted with the miliarism of other nations, and hostile tariffs, like araine Germany and the United states, cirected 0 us. Foreign natons buy only 2144,000, £ 421000 of goods from Britain, but sell her $r$ athe ber the the bland 000 Wh ain, and ship her $£ 106,500,000$ which is rearded as fair trade. Britain takes the largest proportion of exports from Cannda, and Mr Chamberlain told the colonial conference that she might double or treble the amount taken under a reciprocal advantage, thus indicating the vast adantage a preferential British tariff would lee to the Canadian farmer
Well might Premier Balfour, on the floor of the British Parliament the other nicht, doclare that he did not belone to that self-satisfied band who thought a fiscal system established fifty years ago, under conditions profoundly different from hose now existing, must remain unmodified for an me. While it is true that no tax on foor industrial mased without the full consor antion frankly examine this traditional policy, with view to determining wherein the conditions of o-day may suggest modifications. Fre long. Canada will be the home of a vast and aggressiv opulation who will not relinquish self-govern ent, und whe putting Cand an herests hirs ernetuate and strencthen the Fmpire Cal with the discus sion in England. Little serious disposition has sion in England. Little serious disposition has
heen manifested thus far to modify the existing

## THE FARMER'S ADVOCATE

Founded 186

The ${ }^{\prime}$ armer's Advocate and Home Magazine

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moderate protective Canadian tariff. One significant fact in this connection deserving of considerCanadian tariff, That by reason of the present our flag, we find the ment manufacturing greatest agricultural imple side of Canada world, outscale in the Dominion, establishing itself on a large prises are prepared to follow that exican enter be. This demonstrates the faith of shrewd Amercans in Canada and its future, and in the per imilar kind that concoived and was faith of reat Canadian transcontinental wected the firs building the Canadian Northern, and is at th oundation of a still greater and more far-reachof the country is concerned, viz.., the Grand Trun Pacific, the construction of which is now practi ally assured
mutshell when he says the British nation in itself face to face with three great phenomena enormous growth of aggressive ther, and the them: Ind, the determination of these protected and hol colonies: and, 3rd. the with Britain colonies for a closer fiscal union within the Emgreat imperial market. (Chances in thets the trade policy of Britain may not be wrought suadfenly, the times, and appeal to the aspirations of the nation and prove ion to the economic conditions of the times. Winnipeg Industrial Exhibition promises to igger and better than ever this year, Brandon

## Will China and Japan Buy Whoat?

Cossibility of opening up a marke question worthy question worthy of some attention by Canadians cate" staff, while travelling recently enjoyed on interview with a wealthy French merchant who was returning from the exhibition at Oshaka Japan, where he had been in the interest of his business. After viewing the magnificent whea fields of Eastern Assiniboia and Manitoba, this intelligent foreigner declared that some day muc Canadian produce would find a market across the broad Pacific Ocean. While in Japan it had bee his pleasure, he said, to attend a banquet sive by the Canadian Minister of Ariculure a only Canadian products were served at whic that table sat a great many Japanese of in in the country, and they were unanimous in the appreciation of the Canadian butter and bread. These people, he continued, were imit tors first, last and always. They were the methods and customs of older civilizepyin tions ; the better class of them had already begur . use wheat flour, and those in more humble rircumstances would soon follow. In China he believed a similar condition of affairs existed, and people probably not be many years until the pre of the Orient would improve their bill-of , which now consists mainly of fish and rice ailwas Nresident of the Great Norther on to this has been giving considerable attenor wheat subject, also believes that a market onvictions upon this point that so strong are his ing large steamers for the purpose of carvin wheat from the Pacific Coast to Chin carrying and other Oriental countries. He contends that wherever wheat flour has been introduced it has steadily gained in popularity, excent among has tain tribes of blacks. Mr. Hill claims that the great need of the American farmer to-day is beter markets. During the last year, iron, lumber fuel, and nearly everything else that is require on a prairie farm, has advanced in price, while wheat has not: principally because it is sold in open competition with the products of the world As a remedy for this, he would create a new market which the American farmer could reach with wheat at a smaller cost than the whea growers of other countries. If the Asiatic rice eaters could get wheat flour at a fair price, they would buy it, but the trouble at present was here was not steamers to take it to them wa What the great railway magnate of the west ers. We are just as close to Canadian farmmarkets as the wheat close to these prospective sota and Dakota. We have railway of Minne will meast, and these are to be increased, which will mean a reduced rate from this side the mounan - the people of the Orient are roine that they are, they must hare is every indication hard. There are enough people over there to ake all that can be produced in the western po lion of both United States and Canada, even Mr. Hill has said one bushel each per year have been marketed there last fad been available. It surely would have been Cecasional train farmers in the Northwest had an conecostion which gone westward to relieve the It is helieved that the C.P.R. at piresent have under consideration the Oriental wheat market trade are heing talked of. At present for this greatest drawbacks is the heavy haul through feichountains, which, necessarily, makes the fleight ratos high: but with the completion of struction of (G. T. R. and C Coast, and the conpasses of the mountains, the way to the easy board will be easicr. Meanwhile it devolves upon the Dominion Ciovernment to do all in its dian wheat so that when a sulbstantial Canathe formens Pom thic Const has been established.
farm. Those who complete this course success-
fully, receive a diploma admitting them to fully, receive a diploma admitting them to the
status of Associate of the College ; and mans of them may wish to stay two years longer with a view to obtain the B.S.A. degree from the P'r
vincial University, with which our Coll vincial University, with which our College allowed to do so; that is number of them are high standing in both the theoretical and a practical work of the first two years. By this restriction we are trying to prevent young men from turning aside from farming proper, in the hope of getting what they call a "position." strong men are allowed to themselves really in Agriculture. In the fourth place, the gift of the Massey Hal
and Library stands out as a noteworthy event in the history of the college, for two reasons: First, because it represents the first considerable sum of money given by any person or family in
the Dominion of Canada unconditionally to Government, expressly for the benefit of the Canadian farmers; secondly, because this building, furnished and handed over, all complete, at a cost needed addition to progress in every department of the institution On behalf of the farmers of Ontario and the students and officers of the College, I tender to the Massey family the strongest possible expresspirited and splendid gift has done much grood to the College and the benefits to the students who come here, and indirectly to the farming community, will multiply as (he years go by. (Applause.)
Dills then called upon the architect, Mr . G. M. Miller, of Toronto, who handed the keys of the building completed, furnished and paid for, to Mr. Chester B. Massey, who in turn thanked the architect and all concerned for the manner in which the work had been performed. His gratificled with sadness because his building was minreived it was no longer with them. In the conof a clear and thoughtful address, Mr. Massey pointed out that Canada was primarily an agrisuch institutions as the Ontario Agricultural Col lege. The more highly these are developed the
become. The would the system of agriculture other. He was glad to observe the keent of the interest now taken in agriculture by men of long to a family of farmers; his prandiather hative of Vermont, having come as a pione Canada, and his father had been the mean of largely introducing labor-saving agriculpersonally engaged in farming ther, also, yas handed over the keys, amid hearty applause, he the Hon. John Dryden, Minister of Agriculture Tepresenting the Ontario Government.
Hon. Mr. Dryden, in accenting the Hon. Mr. Dryden, in accenting the keys, was the popular esteem in which a is which attested assemblage and friends of the College. by the an eloquent tribute to the worth of the donor paid the building, which would not only be a direct benefit to the College, but a blessing to thousands a tendency for all time to come. It would have those who pursued it, because it meant minds of study, and would attract the brightest intellects and tend to develop those conditions in farm life cham which were evolved the highest types of beautiful Dortrait which adorns the wall of the auditoriu. Massey Hon. James Younc of Galt oriun
missioner of Agriculture in the Ontario Governiment, suggested that in view of its dignity and versity of Apriculturge should be called the Unigrander monument to the memory of the late no Massey than this magnificent hall He attributer the present great agricultural revival and prosPerity of farming in Canada, and particularly in the country was to Hon. John Dryden and Principal Mills for what they had accomplished in that direction (Applause.) The preferential feature of the Cantage of Cariff hadi also contributed to the adthe export showing the greatness of Ontario apriculture he mentioned the fact that the investment in that industry now amounted to over one thousand mil-
lion dollars.

Mr. James Innes moved a resolution, .... President of the College, which was enthucias as ally carried, after which the visitors were enter 1"ills.

## Lone and Short Hanl.

(reation of a Canadian Kailway Commis sion naturally awakens interest in the efforts made in the United States to regulato the mat ways. The result has not been altogether en aging
The decision of the Supreme Court of the united States in the case of the Interstate Com nerce Commission vs the Louisville \& Nashvill Railroad, is believed to have extinguished the courth section of the interstate commerce law popularly known as the long and short hau clause. The case originated in the complaint merchant of New Orleans, who asserted that the defendant railroad was charging a higher rate解 o Atlanta, Ga., which latter point is said to be 100 miles farther from New Orleans than La range. The railroad company admitted the ate the Supreme Cour astains the difference in rate on the ground that Atianta is a competitive point, while La Grange it ot illegal for railroads to charge less for hauling reight to competitive than to non-competitive points situated at a shorter distance. The same principle was supported in two previous decisions the Supreme Court, but never so squarely as the New Orleans case. The decision of the art effectually bars all future attempts on the ar the Interstate Commerce Commission to arce the terms of the long and short hau ress. Thippers must look for relief to Con gradually curtailed by court decisions that little


Lonated by the Massey extate. Formally presented to the A. College on June 18th, 1903.
remains now but the right to collect statistics,
It has been suggested that cither the law itcelf It has been suggested that either the law itself
should be greatly strengthened or the commission abolished. The former action is that which is demanded by the producing and consuming public. The Canadian Railway Commission is being mission previously pects Parliament to stand Minister of Railways, at the back of the curing the passage of a hill that will effect in seregulate the railwoys of Conallo effectually of the people.

## American versus Canadian Millirg

 Representative Bede, of Duluth, Minn., state cline of Minnesota wheat-growing, the great mills of Minneapolis and Duluth will have to mills down, unless under some reciprocal arrangement they can get the wheat of Western Canada to grind. Why not get in on the ground-floor by moving the milling outfits into Manitoba and the produced? That would be easier than looking to Canada for reciprocal favors, and is the sensible plan adopted by the great Internationel Marturers. If our magnificent No, 1 hard goes int U. S. mills it goes out on to the market as "American Flour," and its reputation to Canada is lost and our milling industry is not built up. be kept in Canadal (shorts and bran) should aiding our live-stock industry and sustaining the fertility of our soil.
## HORSES

## Size in Horses.

The premium put upon size in the horse
market has set horse-breeders investigating different methods to produce this desirable feature. The first step toward that end is the securing of
mares and stallions of the largest size compatible with good quality. Naturally, large sires and large mares produce large offspring, if other conditions are favorable for growth. Exceptions to this rule may be found where colts inherit a
tendency to slow growth, or on account of poor tendency to slow growth, or on account of poor
feed do not reach the expected size but ordinarily, a colt should be as large as his parents The problem then arises how to get colts that will develop into horses larger than their ancestors. The history of the improvement of all
classes of live stock has answered this question in the two words, by feeding
The original home and the present domicile of all the heavy draft breeds are remarkable their rich pastures, which furnish abundant
nourishment for the nourishment for the growth of bone and muscle. breeds by supplementing the pasture by these growth-inducing grains, which pasture by good age the colts to grow fast, but tend to maintain a heavy flow of milk in the dam, thus indirectly romoting growth.
of size in horses in this against the development are not naturally as nutritious as those in the low-lying districts of England and Scotland, where our great drafters are bred, and our warm,
dry summers invariably dry un the ary summers invariably dry up the grass just at able succulent, nutritious pasture. To overcome these serious drawbacks, we must provide green
crops of clover, corn, etc., supplemented with cond oat chof and bran, and should arrange
these foods so that the mare and foal will not he affected by the drying up of the early summer
pastures. The dancer bower comarded ager-fat on such treatment will need to be
guarder
treatment maximum size of a colt cannot be attained where the mare is worked hard in the field. Draft are nuain, unscrmpulous dealers ply heaves. Tere is sure to be at the expense of milk prorluction the mare all day in the heat and flocs trudge after horse will mot shows, so that while at rest the such green food as he can find in a stubible fivly dions durins expiration, that indicate heaves, but
 When he should receive the very hest of foed
 grasses that are unsurpassed for winter foods to the have the horse jomen with a slack
produce growth. We wish to emphasize the importance of imen manifest it with wefly on his hack. in the development of size for the reason that
 or mythical hav

Examination of Horses as to Soundness he will make abmally at the flank 1 make
$\qquad$ be soun hreathe normally. Now, sir, 1 have endeavored so treat this important subject as thoroughly and simply as possible, but must again state that in
order to satisfactorily examine a horse as to soundness, the examiner must lie thoroughly sound horse.

## STOCK

## A Summer Jaunt

ture has donn the country June, when na
lightful experience to an office-bound denizen the city. A recent trip to the Province of Que bec proved a thoroughly enjoyable one. The note, has seriously doning drouth, we regret to the rural habitant of the counties contiguous the City of Montreal, the grain crons in instances having failed to materialize, and the the meadows, short and light at best, have that invarded to keep the cattle and other stock from in an otherwise pleasure-giving picture, and this happily, applies to no very widely extended area as when one reaches the far-famed and naturally admit of eastern Townships, where the conditions ing are more advanced the scene chath of farm fair promise of an average scene changes and the the pastures and grain crops looking fresh fron recent copious rains, which, alas, came too late for raise the hopes of the residents of the lessmissing the opportunity to better appear to be ly sowing on their naked lands such quick growing emergency crops as corn, millet and rape, which might greatly relieve the situation in the corning months.
the Eastern Townshins been privileged to visit pleasure they have missed, for perhans of the in all our fair Dominion is found so enjovably contributing to the pleasure, health and happiness of the people; the soil being at once rich and ing, embracing in wealthy profusion most charmfruitful valleys dotted with white farm buildings, and the famed white Mountains of New Hampshire in the distance. Here, close to the pretty and home of Senator Cochrane historic farm in the annals of high-class Shorthorn ic ground first home in America of the noted prizowinnine animals, Baron Booth of Lancaster, Rosedale and Duchess 97th, the '"thousand-guinea heifer,' imported and home-bred anim-to-date herd of Scotch type, revelling in the rich, rolling pasture fields, and living the year round under conditions Which have given to the district the appellation ships, the herd at Hillumerica. Like the townto win the admirationst needs only to be seen fully convince him that no herd on this, and to is better equipped with sterling sires of highect ters the personality of whose sons and daughtheir pren eloquent terms of sadness of it all as improvers of the breed. The aged Senator, who, deprived of his health of the darkness, denied the old-time pleasure of feasting his eyes on the symmetry and substance of his luctante comely Shorthorns, which he has rein order to chosing up his businoss interer future Ingleside, the home of the leading herd of Smith, lies atompsido of Mroperty of Mr. H. Nurst, and presents a its extensive white stables, equiprincely dwelling: improvements: and its gently sloping pastures. many a hard-foucht mizewinners, champions combining to make up a strikingly of the hill, all spent at homes were pleasantly and profitably breeding farms of Mr. Ogilvice, at Lachine Rapids few miles west of Montreal; the former under the er superintunded hy his brothorter, and the lat doden, Jastmasters in the art of handling. Jas with finction. On these great farms dairy forn (ial entom, interested in extensive comaner inemat over on head on each. selecte - mland sum indmaine herds in their native

## July 1, 1903

## Heather. For the production

 ty and type, combining character, yual enius is exemplifid to these canny Scots carrying her ample and evenly-balanced mit wel with an apparent consciousness of superiorit A night was pleasantlyA night was pleasantly spent with Mr. Wm mond's "Huntleywood" farm, at Beaconsfield where a grand flock of nearly 400 registered Southdown sheep clip and keep short the grass
on the 150 acres of golf links, kept exclusivoly on the 150 acres of golf links, kept exclusively for sport and sheep of the breeding flock, while in paddocks and pens are found the showyard
contingent in preparation for the coming campaign. Included in both lots are many imported prizewinning animals in British show-rings, and
most of the grand champion prize flock at the most of the grand champion prize flock at the
Pan-American Exposition, all breeds competing, a record of which Manager (iibson is pardonably, promises to nucleus of a Shorthorn herd that here, headed by the imported bull, Cicely's Pride, a model specimen of the breed, bred by the king, Duthie-bred Pride of Collynie and his dire, the Cruickshank Clipper. Ten females, selected from the same noted herd, together with several other imported Scotch-bred cows and heifers, make up a herd of 25 of excenent type and quality, among hooks and Sittyton Secret families Lavender, Broadber of others of good sound sorts, Scotch-t num and typical.
Our last call was at ". Thistle Ha," the beauOur last call was at "Thistle Ha," the beau-
tiful home of Mr. John Miller, of Brougham, in the fine township of Pickering, where from the veteran pioneer, importer and breeder, is seen spread out before the vision one of the most beautiful rural landscapes in fair Ontario, e tending over 20 miles, with the lake visible in the
distance, and covering most of the splendid townships of Pickering and Whitby, made famous in history as the homes of noted importers of Shorthorns, and sheep and heavy horses; among
which are listed the well-known names Miller: Which are listed the well-known names Miller,
Thompson, Dryden, Davidson, Johnston, Porter, Thompson, Dryden, Davidson, Johnston, Porter;
Smith, and others. A night with the sage of " Thistle Ha," now in his 87 th year, yet hale and hearty, though somewhat stifl in his kneetainment, as he drops into reminiscences of the long ago, and spices the recital with anecdotes and shrewd specimens of sly scotch hmmor, told to relinquish, but has rather cherished for "'auld lang syne," and accompanied by numerous digres-
sions. from the thread of his story to which though complaining of the lapses of his memory, he returns with remarkable dexterity, considering his weight of years, Born near Hodden Cast ada in the spring of 1835, seven weeks and day on the voyage in a sailing vessel, inured all the hardships and toil incident to clearing a bush farm, which through industry has been
made to bIossom as the rose, his experience dif made to blossom as the rose, his experience dimainly in his connection with the importation breeding and showing of prizewinning stock, which he was long a leading figure, bringing with him sheep and pigs on his first trip across the
ocean, and showing stock at Toronto in 1836 The name of Miller has held a higher place for a
longer time in Canadian pure-bred stock annals than any other in the history of the country, and is yet represented by the living personality of more than one of the original immigrants of the
family, for two of his brothers and a sister surfive the ravages of time and with him exemplify the sturdy, robust Scottish character which has on Canadian soil.

Live Stock at Turonto Fair
Whibition to the the live stock classes at the Dominion Soptember 12 th , have all been revised and increased them, thanks in part to the Dominion Shorthorn Asso Cation, who increased their ammal grant and were
penerously met by the Industrial Fxhibition Association. Other changes have been matle in the cattle "lasses. all of which are detailed in the prize list, which
"an be had by addressing J. O. Orr, Manager Indusmedals will be given for the best ram any age and Por the best ewe any age. The Amerian Cotswold
liecord, American Leicester Breeders' Asso iation. American Shropshire Registry Associatio ord Down Record Assoriation and Amarican Southvear. In swine, $\$ 660$ has bren added to the prizes,
$8: 3 n 0$ by the Industrial Exhibition Association and $\$ 300$
 Wons have been completely chansell. so that this sum

THE FARMER'S ADVOCA'TE
Stock in South Africa.

## Our Scottish Letter

June is the great month for agriculturat shows outside the purely dairying districts. Ther e shows must be held in spring, in order that Since last writing seen to the best advantage. She last writing there has been a perfect pledisplays shows, and at all of them quite excellent displays of stock have been scen. Some interClydesdale mare was on exhibition, At Paisley a age, and looking very fit. Messrs years of Wilson, Boghall, Houston, showed a truly grand specimen of the Ayrshire cow. Whe is one of th through being shown in nice thriving condition and in nowise overfed. Mr. Win. Rodger, Crook, Mearns, showed a three-year-old quey mier honors the Boghall cow stiff enough for pre Scotland are to be found in Renfrewshire hall is one oi the best. It has a long history and honorable at that. Clydesdales at Renfrew shire shows are very much in the hands of men frew : Mr w s Mr. Taylor, Park Mains, Ren Wm. Clark, Netherlee, Cathcart, Bish Mr ; M Ridden, Blackhall, Paisley. Mr. Taylor had the remale championship this year, with a Sir Ever ard mare of his own breeding, and Mr. Wm Clark had the male ofampionship, with Baron's laron's Pride. This week we have had ageny of ficent general show at Stirling, and anothagn which light horses were an outstanding feature, at Scotinburgh. One of the hest Shorthorn herds in cotland, contains many fine, big, well-bred cows, This her
rue breed charac
ters. The gred milk
white and $r$ or a
was also well
represented a
Edinburgh, wher
good show wa s last. Mr. Georg Iarrison, Gainfor
Iall, Darlington showed his superb
cow Flora VI., which unbeaten. Un luckily, she has
ost her calf, which came a few weeks consequently, she competing at oll Royal. Mr. Robert Dundee Pitlivie, successful axhib tor. He has been the Argentine, undeterred by th e scare d-mouth the best ol
and South America and Austrategions of North torm of sullering from either a very virulent ease, and the question arises as to whether animals from even the worst Texas-fever district would show any degree of immunity. guarantee 90 per cent. of their animals to live for six months after landing they would have no rood breeding animals or a hundred thousand good breeding animals, of hoth the beef and dairy
types. In fact, 1 am inclined to think that types. In fact, 1 am inclined to think that we
should be willing to allow even a greater loss and still be very well satisfied.
of sheep. Sole could be found for large quantities of sheep. South Africa has not as yet begun to
show up as it will in the sheep line. Cape Colony wool grades very low, but this is no fault of the climate, but rather the result of careless and shiftdo not select their rams with any, or at best little, care. If the ram can beget olfspring, that is
about all that most of them have reguired of him. "ith the general awakening now taking new settlers from Europe, the muttong and wool business is sure to brace up, and the importation
of fresh blood be demanded,

Elsewhere in this issue appear announce ments of really beautiful and useful premiums Which may be obtained by sending new sub. nding new sub
stock is to be seen at Mr. $\begin{aligned} & \text { lections of } \\ & \mathrm{J} . ~ E r n e s t ~ K e r r ' s ~ \\ & \text { Scots }\end{aligned}$ farm, of Ilarviestoun, Dollar. Mr. Kerr is build-
ing up a fine herd of Aberdeeniie showed successfully at Stirling. He has also a splendid stud of Clydesthe , und one of his mares, Lady Garnet, won the championship at Edinburgh. His Hackneys ther heard of. Another breeder of shil we fur and 13order Leicester sheep is Mr. David Hums Karrelwell, Brechin. He won the championship topped later at Edinburgh, and has frequently ward to the first show we are now looking forquarters at lark Royal, near London its new ter will give some particulars about the showI don't suppose you are much troubled with game in Canada; that is to say, you don't have
10 eat or sell. Here things are different. In and 1880 sir Willian Vernon Ifarcourt won for himself the sobriquet of "Hares and Rabbits Bill," by get-
ting an act passed which gave the unfortunate wither who fed ground game a concurrent right act was a tardy measure of justice them; The end all race, but its passing into law did not difficulty has cropped up. A farmer was baffled in his efforts to keep down rabbits by finding his
snares avoided by the rodents. The landlord's gamekeeper was operating at the same time as that he was engaged and the landlord supposed farmer-snaring and killing the prolific vermin
 tomed rum, and so enabling theny to aroid tho
snares. It was a mean trick, apratently due to some ill-feeling between the gamekeper and the
farmer. Such feuds are by no means uncommon. The gamekeeper has
usually disagrecabic usually disagreeable person. He can thwart the illwill to the agricultural tenant he canceives an
life a burden his case before us, the Court of Session has int the
vened, and ordained the his tricks. Curioushe gamekeeper to desist from to the landlord, who was surely responsible for the action of his servants. Game, in the shape miles of our Scottish highlands on many square Big shipments of clydesalates. shortly be made to Canada. Messrs Smith will Richardson, Columbus, Ont., are sailing this week with a good selection of horses and fillies, purchased from Mr. Peter Crawford, Dargavel,
Dumfries, and Messrs Dumiries, and Messrs. A. \& W. Montgomery. Mr
Richardson has been here for several weeks select ing stock, and has got something away which pleases 'him. His horses are big and well-bred and his mares belong to the sort which are likely
to breed well. Mr. Hoffman, from the Northwest, goes by the same ship with what must be
regardei as quite a fine selection of sixteen filregardec as quite a fine selection of sixteen fil-
lies, purchased from Messis. Montgomery. These are got by some of the best breeding horses in will not have been surpassed by any selection mares exported for some time past." Shipments ing of Clydesdales in Canada. A week hence Mr. Robert Ness, Howick, Quebec, sails by the Allan line, taking a combined shipment of Clydesdales, been shipped recently to Buenos many. For a small country, this and Gercalled Scotland contrives to keep itself well in

Butter and buttermaking attracts quite a lot attention here now. We have always had families famed for their skill in manipulating butter in the world can surpass the product the dairies in such districts as are within
radius of 10 or 15 miles around Glaspow. happily, the quantity produced is, so far as the great market is concerned, practically a negligible
quantity. It does not affect values ular brand referred to sells at the highest partic all, but it is never quoted, as it does not pas through the public market, but is either sold by the farmer direct to the consumer, or through
the medium of the retail provision dealer. The question at present publicly agitated is th at present sitting whose duty it is to settle this question. I believe the members are not finding the settlement so simple as it looks. Some very test. How the matter will end doth not yet aption is being collected, which may form the

Contagious Abortion in Cattle The Department of Agriculture for Treland has
of late given considerable attention and study found that surgical and medicinal measures woulid in some cases prevent the occurrence of alortion,
they recommend preventive measures as the most practical for farmers under general condi-
tions. The disease is clearly caused by a germ, and treatment is directed to the destruction on
prevention of the propagation of those germs ness and foul air, it is evident that to get rid
them one must provide well-lighted stables with good floors that can be casily cleaned. Freguont
whitewashing of the walls is recommenden, and periodical disinfecting of floors by spraying will lons of water. Where the disease is already established, the affected cows should be isolated;
the "slipped" calves should be burned or buried deeply; the discharges shomd be disinfected with
copper sulphate; and the cows should be disinfected by injecting some permation provided by should also receive an injection after servine at suspected cow.
Cows that continually come in seaton thas be made to hold by the following treatment : rase
the nozzle of a rubber syringe right into, the ring of the calf-bed, which is a small found about eight or ten inches inside the vuly One hand should first be oiled and passod on with the nozzle, the other being keppt free

Separated Milk as Food for Calves

$\qquad$
 hivernt, one When the calf is sold as a yearling or Wis further than explerience warrants as profitables the stunting process in the
 Inut all the blame on separated milk. There is. how-

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$\qquad$ igest more, others cannot, and this seeems :safe limit. 1 n better to encourage the calves to eat a litule of the best procurable linseed cake, or to add to the minith water. jelly made from ground linseed and boiling about half a pound of linsed cake per day, or somewhatt Less of linseed meal, in addition separated milk and cod-liver oil. older the linseed cake may be gradually i.meated, of boiled oatmeal. A small quantity of fresh well wel hay or young grass should be given early to calh alf as they bergin to chew hay earlier than many suppose. Some rearers have had good results from the addition of other substances besides cod-liver oil, linseed cake and oatmeal to separated milk, und it is
not improbable that the best food or mixture of foods mot improbable that the best food or mixture of foods
may discovered. drawn to the value of cod-liver oil pullic altention was when, in 1896, Mr. Camp bell, Farm Manager to Sir
Robert Jardine, Bart., of Castlomill, Mumiriesshire, fed sixteen calses, in four lots of four each, on various and separated milh for one momth latur 1 serond which two ounces sume quantity of separated milk, to tion to these foods, both lots hatd one-half pound o one pound during the third month, and one and month, pounds during the fourth month. 13oth lots were was little diflerence between either in appearance after which they were fed and housed alike. In January, 1897-that is, when about nine months old-those which weight of four, while those fed on semaratud cod-liver oil weighed $16 \frac{1}{\mathrm{ctw}}$, live weight of four. A year later both lots were sold in lockerbie auctions
mart, the following being the gross weiplt
$\qquad$
$\qquad$ The milk supplied to those ferl on new milk was valued at $\$ 60$, or $\$ 15$ fer calf; while the separated
milk and cod-liver oil given to the other lot was valued speak for or $\$ 7.50$ per calf. These are facts which and verify at little or no expense to himself.
Where separated milk is bro'ght from a creamery once daily every precaution ought to be observed to co carry this out satisfactorily the separated mill returned to the farmers. The preccess of heating, or
$\qquad$ attain'ng this end which wilt occur to most people.
is usually f:ossible to do so at mo cosit for fuel uili,ing the exhaust steam of the engine driving the able to tomany boopled flavor, which is very disagreeThe lactic atid kerm, or be also considerably lowered. is, howerer. found to be very greally wealened, if no for from ton minutes to twenty minutes. Fxperiment ot more. of the bactepinoved that 98 per cent... if were killed by subjecting milk to $140^{\circ} \mathrm{F}$. for twenty
minutes hat milk heated for fifteen minutes at also showe at forty-four hours ase of a large number of tests be used for alfours. Where, therefore, the milk is to the dill will always be broupht back to cases, and unless preat cate is taken the new milk away, filk. The wowss of pasteurizing, and then cooling nel milk of il thay rifl to be fed to the colvos enables the digestion of souring and consequent liatility of in both at the creamery and farm, otherwise goode resure, en ont the bout of food, cleanliness must of calves. Wes ara fod, muty yarticularly in the from which the屋
daily supply of which two ounces of cont-liver oil hat been added. $\Lambda$ few rearers have successifully used
fully more than this quantity of oil without producing any purgative effects, but while some calves can eacity

## JULY 1, 1903

THE FAFIMER'S ADVOCATE

## Some Notes on Breeding,

 Systematic breeding to improve farm aninual: When we see breeds improved nowadays we do not always recognize how much more simple the tury ago. The breed-maker of those days had little or no recorded experience before him ; his own intuitive powers had to guide his selection. making a breed (for few breeds been the case, in made by crossing), those who fore have not been to look far into the future, and set un way have a standard. By ineans of the records in mind, who have gone before and the records of those training or so-called science huilthout text-book science of breeding, we have haid many features the main part by old-time farmers possessing the genius of breed making, give us the greatect sset in farming to-day; the leading breeds of live If we the wortafeatures are very sinila we see that the main catures are very sinilar, although the breed
characteristics, of course, differ. For instance breeds of cattue best suited to beef making have the essential features of heart girth, good top and bottom line, long, deep and full hind quarters,
deep and full chest, tail well se coarse, etc. There is one noint and not too important one, where we fall short, and that for a bull suiled a recognized standard of features as good beef properties. Even here we think thany who are looking out for such greater than mal might be led to suppose. The knowledge exists, but many have not the courage to put it
into practice, because they probably would not find it profitable.
different from those of a beef heactill are widely at the Jerseys, Guernseys, Ayrshires Kowe at the Jerseys, Guernseys, Ayrshires, Kerries, or
other milking breeds which have little aptitude ior beef production, the bulls appear very mean in comparison with the bulls of the beef pro-
ducers. If the bulls of the milk;ing breeds were ducers. If the bulls of the milking breeds were
judged on beef points they would make a very poor show. There are any number of men who
have a good knowledre of the points of the milking lreeds, who are also good all-round judges of the other breeds, and these men know well en-Polled-Angus or other at a shot beef breeds thet the milking features are submerrod by the devolon ment of the beef points. What would be the position of a breeder of shorthorns who developed a strain showing to the full the features which are apparent in the milking breeds? If he com-
peted at any show, not excluding dairy classos not a judge would have the courage to notice his exhibit; the award would inevitably go to the animals possessing the massive, well-squared features of the beef beast, otherwise there would be a buil which would get milk preferentially to beef he would find very few to buy berause lacking the features of the beef beast it would be regarded us loadly bred.-[Farmers' Gazette.

## A Cattle Feeding Experiment

 Star. Mumford, of the Hlinois ExperimentSas just completed an experiment feeding, cattle. ${ }^{\text {Last }}$ Last October he purchased in head to the market six lots of steers, of sixteen fied according to their suitability as feeders, and the price ranged from $\$ 4.75$ to $\$ 3.35$ per cwt. the selling price for finished steers of similar classification ranging from $\$ 7.25$ to $\$ 4.75$ per
cwt. The difference in each class was as folLot 1 of fancy selected feeders, were bourht in the open market at $\$ 4.75$ in October, when finished cattle of the same class were selling at 87.25 on the Chicago market, there being an ap2 cost $\$ 4.55$, and finished cattle of the same class were at that date selling at $\$ 7.1 \overline{5}$, a margin of $\$ 2.60$. Lot 3 , good feeders, cost $\$ 4.20$, a marimilar of $\$ 1.55$ per hundredweight under the price of in 4 medium faeders on the date of purchase finished selling in Chicago at the date of hase at $\$ 5.25$. Lot 5 , common feeders, were bought at $\$ 3.60$, when similar finished cattle were Kelling at $\$ 4.75$. Lot 6 , inferior feeders, cost $\$ 4.75$, when similar finished cattle were selling at price was not nearly equal to that of similar catMrice was not nearly equal
tle at time of buying, Lots 1 and 2 selling at $\$ 5.40$.
Lot 3 at $\$ 5.15$ : Lot 4 at $\$ 4.90$ and Lots 5 and Lot 3 at $\$ 5.15 ;$ Lot 4 at $\$ 4.90$; and Lots 5 and The steers of the best grades werefall of highTade Shorthorn or Hereford breeding The ex periment extended over six months, and in that
time only two of the steers were off feed. The
roughage consisted of Uorn and ooh mical and yain, and the average daily to mate a poumb of 2.57 pounds. verage daily gain leer steer was Lot 1 made 460.1 pounds in six mont tis: Loot
 pounds.
woblem ject of the experiment was to solve the winter feeding Comentin for he experiment, Prof. Mumford says: As a general principle the lower the price of
cattle in the markets of the country the rat cattle in the markets of the country, the less
difierence there is between the best grade of fat cattle, namely, prize steers, and the lowest grade, common rough steers. This suggests that the feeder should be cautious, during such periods of low prices, about paying a
premium for high-grade steers of the beef hr possessing correct conformation On the other market when prime steers are selling high in the tween their market value and that of price begrades. Under such conditions the feeder can the choice and fancy sclected well-bred steers of


Elsowhere in this issue anpesp announce ments of really beautiful and useful premiums which mav be obtained by sending new sub. seribers to the "Farmor's Advoeate.

bertha, george and jenner muteb
Children of Mr. Alex. Mutch, Craigie Mains, Lumsden, Assa.,

## The Hired Man.

## Who is the chap by men most souglit,

 Who answers short and fears us unt? The hirect manWe hunt for him bath doy o capture him use all our might,

The hired man.
Who ne'er from work will let us roam, hose head out-tops St. Peter's dome ho is the boss around our home?

Who climbs upon a lofty perch And says he'll leave us In the lurch, hile we saw wood, who goes to church?
The hired man.
ho has a shiny, stiff-front shirt. nd hands that show no signs of dirt, The hired man.

To him the profits of our toil are given He gets ten shares while we get seven,
Who will, we fear, be first in hdaven, The hrred man

-IJ. S. Brundlye in Toronto Moon

## FARM.

## Rape Culture.

In Bulletin No. 42, on the rape plant, Mr. J h. Grisate, Agriculturet of Central Exper: as late as the end of August, and deyending sown Eonditions, may be fit for mastro depending upon weeks.
Rape may be sown broadcast or in rows Mere intended to be used for soiling, a thin action. The quantity be expected to give satis When sown broadcast is about four pounds. A inger quantity of seed may be used when it is a lesser quantity where it is intended to permit the plants to attain their full growth. The leaves and small stems are the most nutritious and conditions of seeding , abo
When cutting for soiling, care should be taken to cut not lower than four or four and a half inches from the ground. By observing this pre caution, a second, and even a third, crop may ther seeding. acre may bo used. The quantity is pounds per affected by the space between the rows. Anywhere from 20 to 30 inch spaces give more or less
satisfaction, but 22 inch spaces are probably the most profitable. 22 inch spaces are probably the most profitable. Less space than 22 inches
makes
horse cultivation inconvenient. space. means a slight decrease in the yield per
acre. In dry soils or droughty areas yevel acre. In dry soils or droughty areas, level cul-
ture should be practiced; in badly drained fields rainy districts it is in badly drained fields ridges. The method of seeding in rows is, generally speaking, much to be preferred over the broad-
cast. The principal reasons for such preference are: (1) greater proportion or leal to stem ;
(2) more rapid and waste when pastured, as animals naturally walk between rows, and do not, therefore, trample so many leaves or plants as when sown broadcast: and (4) permits of cultivation, which insures struction of weeds in wet times seasons and deSheep on Rape.-Breeding ewes do well on it in summer, and it constitutes a capital feed for "flushing" or putting them into good condition for breeding in the fall. Lambs thrive upon it,
but in their tive than with some other pasture ( preferably other than clover)
 Pasture for ligs.-It makes a very good pas-
ture for brood sows. A little corn or barley fed conjunction helps to balance the ration. For fattening and growing pigs it cannot be to eat it, but once taught, they consume it most
freely. An acre sown on good land and handled freely. An acre sown on good land and handled
carefully may be expected to carry from 25 to 40 pigs from June 15th to October. The exact number an acre will carry depends upon the get the best results, the field should be divided into three or four equal parts, and the pigs
changed over to a fresh parit. cach $\xrightarrow{\text { dlays. }}$ Soiling pigs, of course pounds of pork produced may be secured by cut-
ting the rave and foed more labor is requieed ing to pigs in pens, but least, the advantage is lost. so, in a measure at $\underset{\text { Young Cattle and } \text { amount of Steers.-Calves relish a }}{\text { sine }}$ do well on it when fed judiciously. Young cattle thrive on it when it is fed in connection with matural grass pasture. steers intended for stall cared for than to be allowed the run of necter field of rape.
Dairy Cews.-Dairy rape ration, but judgment must be exercised in feeding, or evi! odors may find their way into
the milk pail. In feeding should be taken to cattle and sheep, care should never be allowed to enter a rape field when cery hungry, more especially should this precaurain, or frost. Once accustounal the feed, hitever, and having access to it at all times,
little danger may be anticipated. Pips are not affected in this way.
In chemical composition and feeding value. rape resembles clover. it is even richer than clover succulent. Analysses show its water-content run from about 89 to about 91 per cent. The nutritive ratio, or proportion of digestible pro-
tein (flesh-forming constituents) to digestible carbohydrates and fats (heat-producing constituents).
digestible thotein accounts for the great iecting
value of the plant. Then, since averame ing antimals require a ration of a nutritive ratio
of about. 1 to 5.5 , it is easily seen why most animals require some other food not so rich in pro-
tein along with rape. Timothy or a mixed grass pasture would be suitable for this purpose. Farm on rape and good results secured. A bunch of 22 steers made an average of 50 lbs . gain, live weight, in three weeks, on an area of two
acres. About thirty sheep had been allowed to acres. About thirty sheep had been allowed to
pasture on part of this same area for ten weeks. The sheep, had had at the same time access to a limited area of natural grass pasture.
On the Experimental Farm, in one instauce,
six pigs were pastured from August. 14th till snow six pigs were pastured from August 14th till snow in 1900 on three-sixteenths of an acre of rape. pounds of meal was required in addition to the rape. The average amount of meal required for
100 pounds of pork is 425 pounds. The use of rape, thereiore, saved 156 pounds of meal on each 100 pounds of pork produced, or about 1,210 pounds of meal saved by three-sixteenths of an
acre of rape. All pig weights mentioned are live weight. Many other lots have been fed similarly with similar results. In 1902, 60 pigs were fed on an acre and a half. In addition to the rape pasture, about 500 pounds of meal was required tor each pig from weaning time to an average of
185 pounds live weight in October or November.

## Harvest Notes.

It is harvest-time again, a culminating point in the year's operations. Although a busy period in which every effort is exerted to house the crop, so prominently as the most strenuous period of the year. The adoption of a method of mixed farming has resulted in spreading the work of the farm over the whole of the summer and a grood part of the winter. The rush of work at harvest time, however, is sufficiently strong to necessitate a little extra effort. With our present methodr more depends upon management than mere hard
work. The binder should be in repair the lari work. The binder should be in repair, the l,arl. thing that would save time when the grain is ipe should not be neglected.
any of our farm operations. best carried out of accomplished is so obvious that the best means of attaining the end ase soon discovered. No matter how widely methods of cultivation and rotation may vary on adjoining farms, at harvest-
time every effort is directed along the same line and toward the same end. At present more effort is being given to the
problem of growing larger crops, of making larger yields, than to the matter of harvesting. Careful study and experiments are being used to throw light upon these questions, while the question of lem to be solved in the realm of practical farm operations. About the only advancement likely dio be made in the future in our methods of handing crops will be along the line of increased chinery for threshing and chaffing at the one operation. When thoughtfully considered there
appears to be no very good reason why binders should not be seven feet wide rather than five, as gain of time. Machines of cutting-bar means a gain of cull capacity of the tying apparatus. In
to the fult
many cases, where the straw crows particularly many cases, where the straw grows particularly
heavy, this is already the case, but in many others the machine runs partly idle more than half the time. Headers will never be popular in for feeding and manurial purposes. A clever ina shocking attachment for binders, but the aplikely to remain the heavy part of the harvest
for some time.- Harvest, however, with all its strenuousness, is a welcome season. The work,
if hard, is agreeable, and we are never sorry to if hard, is agreeable, and we are never sorry to
have an abundant crop to handle.

## Let us Spray

Let us spray
will be yellow will be yellow before the harreos If farmers would say this to heir anas
 spraying only reflects discredit upon thow

Rural Delivery of Mail.
To the Editor "Farmer's Advocate":
Dear Sir,-As you were advocating rural free deivery of mail matter, 1 take the liberty of sending a present the working of it in the place where at dian, there is nothing I would like better to see inaugurated than rural free delivery. It is one of the neithest conveniences that the rural population eujoystamer more nor less than a travelling post office, stamps, letters registeted, money orders obtainvd all
in less than ten minutes' time, and at the farm gate. The system is well summarized in an article written by W. O. be of interest
$\qquad$
$\qquad$ wails in the rural districts was first suggested in this people who would benelit most by such a system were but now it is safe to say that possible it could become, has done more than any one other thing to draw the world together through the daily news service, for the news of the
the farmers
" The people who want the route have merely to tion, and procure the signatures. for a blank petiagree to provide boxes to receive
keep the roads in condition for passage of the carriers' vehicles. This last clause means that in free delivery
districts the roads will districts the roads will always be open and passable.
Such a condition of things is a directr material help Such a condition of things is a direct material help
to a district. It is also an interesting fact that farm property along free delivery routes has gone up in only ideutes are laid out with periect impartiality, the only idea being to reach the most people with the
least waste of time. It often living a mile or so away from the line of route, but living a mile or so away from the line of route, but
whose box is on the line of route at the corner nearest his home, receives pension papers, special delivery
letters or a registered letter.
In this case the carrier does not deposit this mail in the box, as he would ordinary letters, but leaves his route and drives the ing the mail to the person addressed, and taking receipt for the same. The mail, even though it passes the house of the person, is always delivered in the box, and any mail in the box is taken by the carrier,
which avoids the delay of the carrier and, as the boxes Which avoids the delay of the carrier and, as the boxes
are all provided with lock and key, simplifies the system and makes it absolutely safe.
" In each county or town there is a road surveyor upon the residents along a route to keep the roads in conditian by working out thetr road taxes. In the masters of a district should leave their Houses at the time the carrier leaves his post office, and each go
over his section of the route, calling out the residents to fix the road where this is needed. It is only by insisting that the pathmasters shall do their duty in this
respect that the free delivery servin by the rural inhabitants. This ance can be enjoyed the road must be absolutely clear, but a passable way through fields.
" In those parts of the country where the winter season is snowy, the practice cannot be too strongly
condemned that puts hedges or stone walls by the sides of country roads, as such stone walls by the sides blocked with snow, handicapping the carrier to a large extent, in some cases even breaking the horses' legs, be adopted in place of these hedges row never be blocked.
went over a proposed route that some of the more narrow-minded residents would look some of the more tem as likely to be an increased expense to them. One
old farmer in particular, worth probably a hundred thousand dollars, came to me and wanted to linow how
does not increase local taxes in any way, as this is
part of the postal system, and this movermnent is not run on direct taxation, as so many people seem to
$\qquad$
$\qquad$ and not the least heln is the purchasing of stamped
envelops. The government sells, and the carrier is with two-cent stamps and with the imprint amped "orner and blank for the sender's name and address, at Liny a two-cent stamp, or to get one stamped envelope. stamped envelofes at the above price. Many people for then think if against buying a stamped envelope.
an accrue to the country at large from this system, but we do know that it saves time, that it insures
open roads in the rural districts, that it increases the hat it brings property where it is established, an that it brings the farmer, through his daily paper,
into closer touch with the whole world, and these fare enefits enough to base a claim for success upon. the free delivery system is the marked increasence at once occurs in the amount of mail matter delivere in a district when service is established. In nearly every case the establishment of service is followed by phenomenal increase from month to month in the num ber of pieces of mall delivered and collected by the ease after the first few months, the increase does no which it is quite evident that increased mail facilitie heans not only an increased amount of reading matter for the farmer, but increased amount of time in which and himself of it. American farmers have alway Europe, great readers, compared with the farmers of o this taste in our farmers, by giving them more time and opportunity to gratily "" The records of the Post Office Department show hat no other branch of our great postal system is a popular as the Rural Free Delivery Service. This is it carries with it all postal facilities."' I have show

## Macaroni Wheat

$I_{n}$ the Dakotas the growing of macaroni whea is beginning to extend over a large area. I 1901 the total yield was 75,000 bushels, and the stimated yield for the current year is $10,000,000$ bushels. The wheat is now being used to a large extent for bread, and in many cases it is preerred to the bread made from the better known arieties. In France it is usual to mix the grain with some softer variety when it is to be ar bread. In the Dakotas and Minnesota ald pian is thought necessary. Within the arim number of private ex the brins have been successfiuly made in testing bread-making qualities of the new wheat, and en epartment of Agriculture, recognizing the apore the experiments, have taken the exter in hand, and a series of experiments on Thensive lines have been undertaken by them becomes practically demonstrated is that when it wheat will procty demonstrated that macaron rop will be grown a high grade of bread, the stimate that the very extensively, and they 00,000 wushels. The or 1004 whe axcood 20, product has been promptly met of milling the year several mills in North Dakota ground noth number of such mills will reach in that State the South Dakota also promisech fiteen this year of her mills for this purpose, and a move is be ing made in Minneapolis amongst the millers to take the matter up. Professor M. A. Carleton, paying of the Department of Agriculture, is pecture which he has arranged to deliver and a the Detroit convention next month is before forward to with much interest. The present prospects point to a revolution of cereal crop-
growing in the large areas across the line, where the matter is large areas across the line, where At Brandon and Indian Head Experimental yields on the experimental have been giving heavier Might it not happen that the experience Dakota farmers and millers with this wheat

## Sugar Beets in Alberta.

Sugar-beet seeding in Southern Alberta is now all over, the land irrigated last season working an sprendid tilth. The spring rain gave the to mature it and artificial watering will be used over 2,500 acres. It is not expected that the yield or total product will be as large this the as it will next year, owing to the till this year ing in a very high state generally. Most of the land had had only one previous crop. In the Maglrath district there will be crops of beets of uct, guaranteed qu the sugar company will prodthe crop profitable, and will consequently lead to Engineer Bradrick is rushing the sugar mill along. The placing of the plant is proceeding ahead of the raising of the steel structural work enclosing it, and the derricks are having a busy building, and he is ready for is about up on main


FIZZ ${ }^{\text {Whay }}$
Two-year-old Ayrehire bull. Winner of first prize as a yearling at the Bighland Societs's
Show in 1902, and first as a two-year-old in a class of 14 at Ayr in 1093 IMPORTED AND OWNED BY ROBT. REFORD, TREDINNOCK FAR̄M, BT. ANNE DE BEI LEVUF, qUF.

## Finding His Work.

The son of an immensely wealthy American, having graduated from college, went to Paris to

study art. He worked hard in the Paris studios for three years. One day he made up his mind he would rather be a successful farmer than a fairly successful painter. Now-although still a young man-he has a model farm covering 10,000 acres in Illinois. He knows every foot of it, everything it should. He has built a magnificent house, in which not an ornament jars the finest
taste. He goes to Europe every winter and sturlies European to Europe every winter and and cattle-raising. He is developing the land as
his fathers did before him. He employs of men ; he helps the smaller farmers about him: he is likely to be a great factor in the development of the State during the next few years.
And this is the story of a young. American who works for the love of it, and who is a great success because, anxious to do things, he knew when
he had not "found his work."-[The World's

## UAlRY.

## Canadian Butter.

One of the most important functions of gov-
Whment is to ensure pure foods for the uses of not beople. Bogus or imitation products should "l. thus deceiving and injuring the public. such articles gain a foothold under any guise it trol them; hence the necessity for efficient prohibitis mow securing an enviable cheese, our butter world's markets for purity and excellence, and this should be sustained. The manufacture sale of oleomargarine or butterine is already pro-
hibited under penalty in Canada and a bill has been introduced in the Dominion Parliament by Ion. sydney Fisher, Minister of Agriculture, Cluding the foregoing provisions, and also prohihiting the manufacture or sale of renovated,
allulterated, or "process" butter ; also, that only anderated, or "process" butter; also, that only
1.utter madde in a creamery shall be marken
"ceamery". Hhim 16 f per cent of water shall be considered admlerated, and forbidding the use of any acid,
allali or chemical to cause butter to absorly ahati or chemical to cause butter to absorb,
Whtow. The Tnited States has Iegislated against Toms design transferring their operations to Camada. With the establishment of dressed meat
morprises in Canada, attempts may be made to promote the "oleo" or butterine business. DairyNont warned against conceding any points that of logitimate dairying. Care must the interests be taken that hogus products from the United States are not jermitted to be shipped through Canada, thus
ndangering our good name in Great Britain. Cue of the most beautiful sights ever seen in was observed at Corona this month, when a vast cloud of butterfies passed over the place. They was, hall a mile wide and several miles the mass ne knows how high in the air the flock of bril-
liantly-colored insects extended, or where they
ing, cooling and
bottling the milk
Our methods enable us to produce pure milk. Our lows are all healthy, the stables are modern, well entilated, light, clean, and have cement floors.'
Recently Mr. Clark visited Ohio, several head of Jerseys of the most approved strains. One is a son of King of St approved King, 30752 , who now has thirty tested daughKers. Mr. Clark has had his bull named Clark's four daught Lambert. The females in the lot are 49640. They are Gazelle's Brighteyes Lamber dam Chief's Brighteyes, 15 lhs .8 ozs.; King's Amy 172829, dam Amy H. of St. Lambert, 17 lbs.; King's Doris H. 173008 , dam, Doris W., 17 Mr. Clark should soon raise a herd that would produce milk of the very best, guality that would is also a valuable addition to the stock interests
of Canada.

## Moldy Butter

The New York Produce Review and American Creamery says: The "Man on the Street" has inade frequent references of late to moldy butter, and calls attention to the fact that a good deal diate steps are taken to prevent it. This seems to be almost a threadbare subject. buttermaker of any intelligence can plead the ex cuse of ignorance as to how to prevent his butter
from becoming moldy. from becoming moldy. The trouble lies v practically eliminate this dangerous element in the trade, and when his duty in this respect is neglected it becomes almost a crime, for it causes a financial loss either to the handler of the butter in the commercial market or to the patrons
of the creamery.
Scientific Scientific experiments have proven that mold
comes from a germ, that it grows very rapidly under favorable conditions, hut that it can be bacteriologists in the dairy schools and of the ment stations have ing the tubs with Certain chemicals,
formaline be in formaline
especiably mended; oth favor thorough steaming of the her butter is th. The former p) I as seems impracticabaratively fow how to handle dangerous chemio als. Steaming i good, but only
few creameries ar equipped to do thi and yet apparent methon is is ith" liberal use of salt.
This is within the reach of every men are inlik


[^4]Jerseys for City Milk Trade. offered the been tunity of securing
the very, best milk for pure-bred. Jer Mr. F. Clark, retired merchant,
who has bought ia harking cularess, to the a cirl process is open for isitors are alwn welcome. The best
time to see th a thairy is see the
dairy between Ocyock in the
aiternoon, as the ows are then in the stables. 1 hence much to haul to the creamery 4. The capacity of a plant can be increased

The chief disadvantages are:

1. A poorer quality of butter
ration of milk If the hand-separator system is the one, and no effective and systematic restraint rienisely administered, then it is time for the helning of good butter to come out and give a ream, ho that improving the quality of he taste of consumers and commanding the to cst market price can continue to be manufactured -[Iowa Agriculturist.
|Note.-In farm buttermaking the hand separator farm buttermaking, the use of the hand separator has resulted in better cream and tory syctom it is momplaincal that creang facdifferent patrons lacks uniformity, and many of them do not take proper care of the cream beore it goes to the factory. Where the fresh there milk is taken to the factory daily and rectly under the buttermaker's cream is more di

## How a Gentlaman Wilks

an articls on swearing, very properly maintains that it is not gentlemanly to swear, and says a eentleman, will talk like one to his cow in flythat to get the best results from a cow she shoul
 article from the pen of the Reresford gentleman bears out the contention. There may be times of these times might he use profanity, and one whack at a fly on her ear with her hind res hand foot at milking time, but if he will rememher that harsh language will decrease the flow of milk and stamp him as a rude fellow, he will

## New ©haers and Butter Standards

## unter saiesmen, members' of the Montreal Prod-

 Nominion Dairying Service, was held at of theHeal on June 2nd, in the council chamber of the Board of Trade. The meeting was arranged by of the Dominion Department of Agriculture, who presided in the absence of Prof. Robertson.
The chief object of the meeting was to sider the questions of standaras of quality and and butter. The lack of authoritative finiding on these points has sometimes resulted in misunderstandings and disputes, and it was Mr. Ruddick's dea that a representative conference of the interested parties to discuss the specific questions
above mentioned would lead to some definite conclusions which would be beneficial to the trade as a whole. Nearly one hundred salesmen, exporters, instructors and others interested in the export trade were present, and steps were taken marketing of cheese and butter
Mr. Ruddick outlined the efforts made by the Dominion Department and by-the Provincial Govmore general system of Quebec, to bring about a more general system of inspecting cheese and but-
ter before it was placed on the market. He pointed out th'at dairying was making rapi strides in Denmark and Russia, and that Canada should be prepared to meet stronger competition in the future than in the past. Only steady imwill enable us to retain our present position in the British market.
BETTER STANDARDS AND DEFINITIONS RE-
Mr. Z. F. Lawrence, proprietor of and sales-
man for the West Shefford creamery, who man for the West Shefford creamery, who was the first speaker, spoke in favor of adopting accommodation of all concerned, and to stimulate improvement in manufacture. He explained the
loss to which butter and cheese makers are put lack of good definitions, and pointed out the dif ing to conform to the requirements have in trytrade, without having some clear-cut definitions of grades and standards of quality from some authoritative source. He illustrated his point by referring to a clause in the circular issued by
the Montreal Produce Merchants' Association al lowing three per cent. in butter. The "throe al cent. of salt", was very indefinite, as salt added at different stages of the making produced very different results. Mr. Ayer, on behalf of the
association, explained that "three per meant that the three per cent. of salt cent. salt' after the butter was worked thoroughly dry. This
gave a distinctive flavor of salt, as required. gave a distinctive favor of salt
BAD PACKING
Mr . A. A. Ayer, of Montreal, spoke especially
of the wretched boxes in which Canadien is frequently packed. Many creameries made showed a number of packed it properly. He to him as samples, and pronounced them all sent satisfactory; the wood was too thin, the sides not properly fastened together, and the cover hooks not good enough. The paraffining was alMr. Byers, of Vankleek Hill, Ont., said that a
good deal of the best Canadian spruce was pulchased by Americans. He lived near a mill, and knew that it would be easy to get spruce large
enough to make good strong boxes, instend the flimsy packages made from nares, instead of which are too often used. For the sake of a cent or two on the price of the boxes, factory-
men were endangering the whole butter Mr. Ayer pointed out that Argentine butter was frequently shipped in boxes made from the hest general use here. It was also shown that New ure putting their butter on the British parket in,
much stronger and Canadians are using.
NOT ENOUGH DTSCRIMINATION BY BUYFRS Mr. H. S. Foster, President of the Redford ers in the large centers, particularly Montreal, did not give any extra consideration to offerings of
butter and cheese which were first-class in cron particular, over offerings of a poorer grarle. Hic claimed that the superior quality should lie
recognized and the makers encouraged by its drawing a higher price in the marketed if if at
tory went to extra expense and trouble to time out a finc de of cheese or butter, that pooduct the new standards. the standards adopted by the Montreal Produce
the opinion of the meeting that these standerds
which had proved satisfactory in business
actions between exporters, and which provided legal basis on which to settle any dispute that suitable for concerning such transactions, were resolution was finally adoption: The followin D . The following shall be the

- Butter-Finest creamery butter shall be but
ter made in a creamery under the system known
- Flavor-Sweet or separator process.

Body-Goot, clean and fresh.
made or watery; must uniform, and not loose cent. of moisture to conform to the law in pe butte With proper care none of our Canadian moisture.

Color-Even and uniform; should be straw - Salt-Must not not white or lardy.
less by special arrangement three per cent
Package-Boxes must be strong, well made of well-seasoned wood, properly paraffined made condition capacity of 56 lbs ., clean, and in good four hooks in shipping. When hooks are used, neat, and of uniform size. Pure veretable parch, ment paper, of not less than forty pounds to the ream, must be used for lining all packages
Mr. Jas. Dalrymple submitted the followi - Fodder regard to the packing of butter
clean in make should be salted four per or new made should not be kept till stale before shipping, but should be in consumers' hands ter to firteen days after it is made. Neat and clean used, as the appearance boxes only should be of the butter. , "It will
home trade has come to know mind that the as they boxes, finding the same more profitable, neater.
This should cream butter or Western Ontarioconsumer when fresh. great difference to the quality
ree from any inclination to me the best, and butter is not desirable; what is No. grading of will be No. 2 next week.
The matter
Mr. R. M. Ballantyne, Presidene taken up hy Merchants' Association Ho poine troduce in the quality and package. The greatest ectes should be taken to keep the factory clean care cheese and produce would develop and infect the packages, recommending an for. He spoke of
$14 \frac{1}{2}$ to 15 cent hoop.
Mr. A. J. Hodgson did not want the cheese hipped in too green boxes, and impressed upon as thousands of cheese were arriving strong buxes, sde without the vectige ar on the other Mr. Ballantyne moved the adoption of the
following requirements of finest cheese by Mr Hodgson. Cheese-Flavor, clean and pure.
Body-Close
Texture-Silky, solid and meaty.
Color-Good and uniform. meaty
Finish-Of good shape and fairly uniform in
neat in finish, with good rinds and
"Boxes-Must be strong and close and clea
The recommendation was and close fitting." seconded by Mr. M. H. A. Hodgson, A. Ayer, and found and not more thase of at least quarter 100 pounds of butter, of the best preservative specially prepared for butter, and that this
should be thoroughly mixed with the hutter ," This motion was also adopted.

Rusty Spot in Cheesemaking
Sullitin ons Agricultural Experiment Station pons that thorough trials, in speral different sils usad in chececmaking is a very cheap and

Our lady readers, especially, will be interested n the new hand- and wrist-bag premiums may be elsewhere in this issue, and which "Farmer's by getting new subscribers to the secure articles of . We have taken care to appreciated, and trust many of our readers premium offers. oners.

## Food Rations for Dairy Cows

Dairymen, like owners of stall-fed cattle, dif, tion of foods their views as to the best combin: every district into be found employing combinations of fors are t differing from those used by their neighbor use the is, perhaps, no "best" mixtúre of foods fo at the same timsible circumstances, but there who aim at obtaining the standard to which al cows which they keep must conform ts from th possible. This standard is one in which the ly a portions of albuminoid and carbohydrate matter is, bohydrates. The different matters to six of car ployed for cattle feeding purnoses contoin y em albuminoid and carbohydrate constituents in wide ly-varying proportions. Some foods, like cotton noids, contain a very high percentage of albumi cent. of albuminoids, while as much as 45 per rich in the same constituents. At the other treme are maize and barley meal, which con ex comparatively little albuminoids, but a very high percentage of carbohydrates. In order to obtain use these foods not separately, but in comb to tion. Tables showing the proportions of alluminoid and carbohydrate constituents in most ooral annuls published in many of the agricul them, farmers and others can easily ble before oods at their command so as to produce the combination of food constituents that is known to proportion in the the As already indicated, the albuminoids to case of dairy cows is one of Young stock require slichtly if carbohydrates. food containing one part of albuminoids to four or five of carbohydrates ; but on the other hand, 'wider', noids to seven or eight of carbohydrates.-[Ex.

## Special Dairy Prizes.

Dominion Fxhibition, the giving of prizes at the lugust 27 th to September 12 th , is the giving of $\$ 125$, divided into $\$ 75$ and $\$ 50$, for the syndicat gregate prizes in sections. secure the highest agprizes a first prize in any of the sections these third prize 4 points, a second prize 3 points

## POULTRY

## Great Demand for Chickens

## he present time is inost favorable for the

 chickens. There has and marketing of farn crease in the consumption of chickens and ecg within the last few years that it is not possible chear a greater number of suitable marke chickens than can be sold with profit. Last yea there were not sufficient chickens sold in Canad to suppry the home markets. As a result of the was the great demand is unfortunate on account o Britain, and the pood The 'Chicf of the poultry prices that are paid.Hare, stales ceived from produce merchants, poulterers re States, Great Britaints in Canada, the United to learn where chickens and be etc, who desire numbers and at reasonable prices. Last fall great Shipment of C:madian chickens was made to Cape and phem the trade. A New York firm wrote that the desired to import Canadian chickens, ment of lupiulture to a firm in the Maritime and were impresed cavorab purchased chickens The prohlem of supplying this wonderfully in fiifty on :n lomutral chickens that feceive littlearing (exicultar. cominules that he should rear from when andens anmually of a utility frome. - hownors ind brondottes: hatcher and reared When thenkerels should the placed in fattening When is estimated at $\$ 200$ to $\$ 250$ for inhatw homders, houses and fattening crates

JULY 1, 1903
200 chicken
arming is a the natural mean. eloped in the same manner as the and fruit branches. A substantial profit made from the poultry business, when
ried on as an adjunct to farming and same careful attention and financing.
The Dominion Department deavoring to increase the poulty Agriculture is e ada; to encourage the growing of the number of high-class chickens; and to assist the marketing of them. A revised edition of th uscful bulletin, "Profitable Poultry Farming," has
just been issued, and will be mailed without charge on application to the Commissioner of Agriculture and Dairying, Ottawa. Mr. W. R. R.
Graham, of the OASsioner Graham, of the O.A.C. poultry departinent, als,
issued an instructive bulletin (No. 127), "Farm

## Buying Eggs.

The following report of eggs shipped some dis an article in Farm Poultry poultry is taken from from eight different fanciers, and writes to the editor that he is " greatly discouraged, and feels like throwing up the sponge." When we con sider the express charges on eggs, cost of eggs and time and einergy expended, we do not wonde der why he did not buy some of his eggs near home rather than to sertd east for them. H probably expected to have a home market, and
why did he not patronize a home breeder? He
purchased eggs as follows:

Since all the eggs hatched badly except those thing wrong at each end of the there was some breeder should attempt to stock his yards from eight different strains, taking it for granted that the eggs were all from the same breed, is a mat-
ter of sturprise. It is very generally conceded that of surprise. It is very generally concede that a cross of two different strains is often a
disastrous as a cross between different breeds.

## Poultry Notes.

Reginners in poultry-raising should have a car Do not allow your litter in coop to becom damp during the rainy season. Fowls must hav Exposure
at night, causes cold wind, especially to a draugh the most robust fowls.
Do not have your mixed feed too soft, hut
have it of such consistency as to fall apart when hrown on the feed boards.
Many a person puts the money into fancy ought to go into the poultry.
There are many who enter the poultry business or pleasure, but they don't stay in long just fo blamed either
The gape worm can frequently be dislodged
through the efforts of the chicken itself-vimorous sneezing. Several recipes are given to induce this effort, such as blowing Persian powder down box or keg and making a lime dust. There is some danger of overdoing the job and making
the chicken sneeze itself to death, or stifling it.the chicken sneeze itself to death, or stifling it.-
[Journal of Agriculture.

## Pullets for Layars

vinter laving, and if we would have an ahundant supply of eggs at the time of highest prices a hatched and well-grown pullets. An be early pullets ried on at the Utah Experiment Station, Logan, Ttah, a few years ago, and the results were most instructive. Two pens of old hens averaged 85
cggs apiece, while two pens of pullets averaced 170 eggs apiece-exactly double the number. The
doubled number of eggs laid by the pullets does not rightly present ege ratio of profit, however, hecause from one-half to two-thirds of the increace comes at a time of decidedly higher prices, hence
the proportion of profit is much greater. In this ner hen was $\$ 0.78$, while that of the of eggs ner null-
let was $\$ 1.78$. The food, cost, latior and intorst on buildings, etc.. is no greater for a pullet part of wisdom to have the bulk of oull flocks

THE FARMER'S ADVOCATE

## Selecting the Best Chicken

than they mean to rear to many more chickens begin the weeding process at a comparativel early age. Fanciers who mean to take a promi nent position at the winter shows are forced $t$ do so, for the most carefully mated pens in the birds. How much more po will the of weedy from pens of birds of only moderate value? The fact is that our best breeders hatch hundreds chickens every year, from which they select dozen or less of the best specimens for show pur poses. The sooner the numbers are kent within bounds the better it is for those which are left. The true fancier is continually on the lookout not only to discover what will probably be his best birds, but to spot undeniable weeds and kil them off as quickly as possible. The worst specimens can usually be detected at an early age, but which are first-class and which are second-class have to be decided upon at a later

Wrong-colored chickens can be detected in the blacks and dispensed with at once. For instance can lacks and whites in a nest of blue Andialusians when it is a cour single combs tivated. Twisted the same fate. Leg color beaks can aiso meet in the same way, however Chickens of with breeds frequently hatch with yellow ors, black these darken off until quite black in ags, time. Chicken feathers are also of little index to the ardult plumage in most cases. When the means that the birds upon the plumage, that old before the final selection is made. Take laced Wyandottes, for instance. The chicken feathers are not laced at all, but are generally more or
less grizzled all over, and the birds are nearly less grizzled all over, and the birds are nearly
four months old before the beautiful black and white or black and brown begin to peep out at the sides of the breast. Then one by one the first feathers begin to drop out, and the grorgeous
adult plumage takes its place. It is the adult plumage takes its place. It is the same
with Indian Game. The pullets' breasts remain with Indian Game. The pullets' breasts remain months old, at which period the beautiful double lacing on the rich brown ground begins to make its appearance. Anld so on with many other breeds. Time is required wefore the final seleccarly, and at the earliest possible moment go Of course, it costs money to rear a lot of birds to near maturity, but there is a very good
market for second and even third rate birds, and well-known breeders usually find no difficulty reputation as successful breeders, of course, Their ly helps to get the birds away, but it is an undoubted fact that second-class birds bred from several generations can be depended line-bred for many grand birds if carefully mated to stock which contains halp the blood of their own strain.
In keeping poultry for prolit the food bill recross may be a good layer, but it may consum more food than another which produces just about the same number of eggs. Clearly the latter is preferable. Some breeds require, to be moderate eaters while heing very prolific but pare golden or silver Wyandottes, for instance with buff Orpingtons. All three breeds are ex cellent winter layers, with little to choose beOrpington had its way it would but if the bufp more food than the Myandotte. It takes its big appetite from the Cochin, while the Wyandotte is a moderate eater, due probably to some extent to its bygone descent from the silver Hamburg. therefore, of great importance before selecting breeds for utility purposes to find out something about their special cost of upkeep. If a little thing is all right, but very often it does not mean this at all. breed their hest birds. They buy them from ghot-going breeders who have no desire to win objection to sell the first-rate produce of their centage of the best birds of the vear are mot,
bred by their exhibitors at all. - IFarmer and bred by their exhibitors at all.- - TFarmer and

No other paper offers such a list of useful and attractive premiums for obtaining new the announcement elsewhere in this issue, Read

APIARY
 gotten off just as soon as the appearance of robthat the flow is ended. Extracted honey should all come off at the same time, or, in any case before buckwheat or other fall honey plant theoms. All white honey should be off by For getting bees out of section supers there is nothing like a good bee-escape. All supply dealers handle them. It is put on between the supers and the brood-chamber, and is so arranged that back. In a few hours the supers are cannot get ree of bees, and can be carried directly into th honey-house. The few remaining bees will fy to the windows, where they may be liberated. Esapes work well for extracting supers also, with super will hold the bees, and the escape is the less; or if the weather is at all cool the deserted honey soon chills, and is harder to uncap and All considered warm.
way to get off extracting supers most expeditious about is to proceed as follows: Lift off tho Super, set it down in front, and close up the hivo. Robbers are now prevented from getting into, the guarded. Lift a combentrance, which is well and brush the bees from it at the entrance and set it into an empty super ready for the purpose on a wheelbarrow directly behind the hive. Resuper. If two aro working the combs in tho super th two are working rapidly at this, you
have the honey inside screen doors almost before the robbers know you are there.

## The Harvest Time.

For white honey, July is the harvest month and must soon he gathered in. White-clove honey begins to come into the hives before tho
middle of June, and continues until ery uncertain date, not usually beyond the on spared the trees, opens bloom about July 12 th This honey has its own flavor, and a decided though not unpleasant, aroma, which can b Commanding apiary during the basswood flow honey may be extracted together. but if to b kept separate, the former must he removed befor the twelith of the month. Only that which is uncapped honey is une taken, however, tracted except in special cases, and shot be ex be offered for sale
Speaking of unripe honey, the results of som experiments with honev, given by Prof. Shutt a in these columns shoud he reforer, and reported is to maple syrup. It honey almost what sap is to maple syrup. It reaches the hive in a very
thin condition, and requires thickening and somic digestive treatment. A great number of the hive they can make a current of air through the hive with their wings. This fanning cools the hive dries the honey, and, incidentally, produces the a busy day heard in the apiary at night afte a busy day. As soon as it is ready, the hone
is capped in the cells, and if the weather ly dry, curing and capping go merrily on : but on through the hives, and even the animal-heat of honey. Even capperl honey beromes thinner the such times, so great is its aflinity for moisture.
I ast season was notably favorable fon studying these conditions. The air was almost con-
stantly saturated; white clover bloomed profilsely and yielded well. When the weather was
not cool and rainy it was hot and damp. The
seretions and sections and extractinge combs filled rapidly with reason that the air colld take no more moistur
and the honey could not he rijenel. The ex
cessive swarmine cessive swarming may in part be aseribed to dis

GARDEN AND ORCHARD
Helderleigh Fruit Farms and Nurserips, empire-building years is, happily, ind the direction
oi the encouragenent of home production the velopmentent of homent industries, and the growth of
a feeling a reeling oi condidence in ourselves and in our
ability to produce the best quality of goods in many lines in order not only to mulity of goods in
ments of our ever-incrint requirements of our ever-increasing home tharkets, but
also to capture a moodly sin also to capture a goodly share of the trade of
foreign or remote countrics. This is good sense and good business policy, and perhaps in no line
of business is growing of first-class fruit, to which very the areas of this Dominion are peculiarly adapted. orche tirdsts imported most of their nursery stock, being persuaded by glib-tongued agents from over the line that such stock was superior to the home
grown, but in many instances experience taumht the lesson that this country was not infrequently failed to grow or proved untrue to stock, which hence, unsatisfactory and vexatious. A few Cana dian nurserymen, having faith in themselves and in the capabilities of this country to produce the spirit of enterprise and being possessed o rightly directed, leads to success, have from whal beginnings gone forward in the face of strong competition, and by the adoption of the best-tested varieties, the most advanced methods of propaga-
tion and cultivation and horate gained and held the confidence of the paople have have succeeded in building up extensive, and eminently successful business enterprises, giving general satisfaction to their customers by the in the front rank of these advanced nurouminent Mr. E. D. Smith, M.P., of Winona. Ont. in the Niagara district, far-famed for the abundance and perfection or its fruit, whose Helderleigh Nurser1882 , have in a comparatively small way in until at present the area under cultivation is year dess than 575 acres, of which 200 acres are planted to first-class fruit orchards; 200 ncres solidly plantect to nursery stock of standard ries, grapes, raspberries and poosetherries, hesides all the best-known varieties of ormanental
shade trees and shruls. the halace of the shade trees and shrubs; the balance of the land being used for growing feed for the horses, etc.
To give our readers an idea of the stock required to meet the great demand for trees from this nursery, we were informed, on the occasion of a recent visit, that the planting this spring was 100
bushels of peach seed. 100 ore bushels of peach seed, 100,000 plum sedings,
60,000 pear seellings, 40,000 cherry seedlings, 335,000 apple grafts, ${ }^{6}$ and other cherry seedlings, same proportion. It should be borne in mind that these figures represent only one vear's
growth, and that as a rule it takes three yerrs
 ing, and by at least onnchaif for year's plantyear, and must be multiplied by $t$ two and a hald in order to get a reasonably correct idea of the The an tmmense business. That the business is rapidly growing is evi-
denced by the fact that while five years aro was only found necessary to plant 150 .000 apple
craits. the demand has
335,000 have been planted what that this year manting was nearly as many, while last year's near the root thequire to be grafted or budded ver 400 acres of plantation if planting; that rultivated that scarce a weed is seen; that all equal to one vear's be pruned ; that stock almost taken froin the pround fumigated year to be shipped ; that some 40,000 barrels of apples and


MR. E. D. SMITH, M. P.

## Proprietor of the Helderleigh Nurzeries, Winna

300 carloads of ten tons each of other iust and of which is purchased from neighboring grow and a large percentage of which has to be graded warehod the farm, in a single senctric railway running through one gets some idea, though necessarily anth, and imperfect one, of the immense amount of work carrying and of the number of hands required in WINTER STORAGE BUILDINGS
Since beginning the business twenty-one years ago, it has been Mr. Smith's ambition, which has make it a permanent one one not gone by, to own life, but for his sons after only for his that it is a most interesting and useful business and likely to be permanently profitable if his confidence being more and more confirmed and the large increase in the demand for his trees structed the best buildings fort of $\$ 6,000$, conCanada. In these, one of which (illustrated in the engraving) is $108 \times 280$ which (illustrated in under cover from storm and frost, he can trenc Iwo weeks earlier in the spring thy to ship out Wo weeks earlier in the spring than are trees trees-are in leaf before such large quantities
rew scarce; besides, the trees out in the nursery reezing. A few years ago all badly damaged by pear trees and many plum trees were nearly sent out in a dead or feeble conditionds were ample cellar accommodation all these things with laken up in the fall and trenched in out of ground cellars, in which soil of these huge abovealphabetically arranged separated by ropes to insure accuracy. Evand one knows the enormous advantage of early plant ing, when the trees are dormant. A tree planted in two years than one planted late and prow more in leaf will in " Consider this
"Frost in the ground April 5th; 500,000 trees to dig before packing starts start; hands scarce; leaves coming out April 20th, ten days packing trees ; a week in in April 25th; chaser gets them May 5th to May 10th from nurseryman without such a cellar; whereas I can commence shipping at any time. This year
I was afraid of shipping before freezing weather was over. I started as early as I whournt customers would be ready for stock. Cus. when they can get sound, unfrosted trees,
and get them two weeks ahead of those from any -

THE SECRET OF PERMANENCY best guarantee of honesty. No burserymin the intends to follow up the business all his life, and leave it a legacy to his heirs, would be fool enough, even if he were dishonest enough, to send Mr. Smith's aim has always been to furnish it. best and to be sure it is true to name. Mistakes and so few in number. Being a mot wiliul they will be no claim to superior honesty $y$ teman, he makes bors to judge of that, but he points out that no manent business can afford carrying on a perhonest. Untrustworthiness to be anything but things, in the nursery on confidence between buyere and selle all depends pears, insure that the various kinds of apples, plums pears, peaches, grapes, etc., are true, he cuts from on his own fines and hushes, known to be true graiting and budding. He has cuttings for fruit orchard, and has been handling fucres in large way for twenty-five years, and so is not and in to judge of the value of different sorts, grows for sale all the give good advice, but he duce the most of the best sorts; sorts that proalso those that are most profitable. He is oblige that hrow scores of sorts that people call for left to him not grow if the selection were growing, and almost a hundred varieties of plums apples, grapes, etc., that are known in pes. pears, as valuable in any way; all told, close canada shrubs varieties of trees, vines, bushes and ABOUT NEW VARIETIES.
Another feature is the care in offering new
varieties. He does not offer them now until well

upon any representations made
parties. Findine firom experience occastomany ar a new fruit is better that .....
older kinid. in this respect. Nevertheless, really instance, is one of the newer grapes that cided step in advance, as the Niagara Smith, is far and paway, the Erearald, says "In early plums introduced for many years, leeing
three weeks earlicr than any good curopean and two weeks ahead of Abundance, earlier than suality for eating out of hand ward, and of choicy said of any plum ripening within a month of it and that is the only use of an early plum-t,
eat out of hand. They are sold at high prices and are not used for canning; consequently qual ity is the important thing, and Emerald is not
only above the hot even the old Green Gage, its parent, being superior. in peaches, one of the finest ever in-
troduced is Millionaire, which was secured at St. Catharines. It has fruited now several years, and is ahead of anything even of its seaso
when there are a numler of good sorts ready.

The needs of our northland Mr. Smith makes a specialty of studying the needs of the northern half of Ontario and Quebee,
and has a long list of varieties of apples che ries and plums that do wall in of apples, cherions; varieties that have been tested by the Fre perimental Farm at Ottawa, and by such well-
known and trusted men as Robt. Hamilton. Chapais, Dupius and other Quebec growers.
The writer has seldo able and instructive a day in quest of infore tion for the "Farmer's Advocate " constituency as during the visit to this great nursery and rimt ratro, where on the one hand may be seen he little seedling in process of development, and fruit, the ultimate triumph of the horticulturist's

Thinning Fruit
The thinning of fruit is a question that is
tuch discussed by iruit-growers, and numerous instances are given where the operation has paid ity and high price of labor it will pay on any and all kinds of tree fruits, is a question not as yet definitely solved. Many varieties of plums, lined to set more fruit than of apples, are innature. The removal of half of it, being careful O always remove the poorest specimens, will often result in a crop of just as large a bulk as it it had been left unthinned, but the fruit would ent that the extra price received for it would pay the cost of thinning and leave a good margin of profit. It is estimated to cost from ten to firteen cents a tree on young bearing trees, but it lary so much that it is impossible to fix a price per tree; but in the case of plums and peaches The work of thinning could be lessened to a very
great extent by judicious spring pruning. Upinons difler as to the distance apart; from three to luns is recommended. There are other advanlages in favor of thinning that are, perhaps,
overlooked. In the case of plums it lessens greatiy the damage by rot. The Monilia, or
plum-rot, will not spread so fast or do nearly so fluch damage where the plums are not touching Then it takes just as much fertility from the soil to grow a poor, unsalable specimen, such as loes to grow one of high quality. Some rarito overload to such an extent that they can not therefore, only bear every other year. Trop, The the moval of half the crop would allow of the formacheap labor were obtainable, thinning would be-

## Ornamental Trees. <br> A buys a farm with the road running through it east and west, and builds a house on the north side of road; plants out ornamental trees on both six or eight rods each way (east and west). A (c. He gives B the north to his two boys, B and has the house on, and C the south side ord that road. C builds a house a mile or two distant, die, leaving the property to their children. ${ }^{\text {and }}$, 1. Can C's children cut down the ornamental opposite B's children's house? The They the road, opposite B 's children's house? They are on the limits of the road. 2. If not, what way would need to be take prevent them if they should attempt it?

the road by the side of C's on the somth side of Ans. -1 and 2. It is probato that they a
legally entitled to do so 3. We think not. We would, though, with
regard to all these questions, say that it is likely there is local legislation affiecting them, and that

## Buying Nursery Stock

At this season nursery agents are making thein kinds. Usually orders for nursery stock of all orders. This is necessarily the case, as it costs as a large one. A large saving a small be mader by intending planters by bulking their orders and arge orders reduction that is always made on is usually the best way, however, of purchasing As a rule, no dependence should be placed un the agents' judgment as to the varieties to plant tending planters should consult some experiencel grower and be guided by his advice. Ie should also consult the reports of the Fruit-growers" to become a the reports of the Experiment Stations look ove be dollars in his pocket. Locality, soil, mar kets, climatic conclitions, must be considered, and to must select the varieties that are best suited should try to benelit by the experience best. He providing they are such as he can have confidence in. A little knowledge of the right kind at the start will save many a dollar. When a person he should insist that the trees or pants ior it, healthy, well-grown, well-rooted specimen , to name and delivered in good condition, and accompanied by a certificate of proper fumigation stated buyer should see that all these conditions are stated in the order before he signs it, and he
should refuse to accept the stock unless the should refuse to accept the stock unless the co
ditions are fultilled.

## Individuality in Trees

pie trees for the planting hardy varieties of ap with the best varieties of marketable apples, are working along right lines to secure profitable ing, spraying, cultivation, fertilizing of prun tended to. But there is a pointer here for the ing or to employ he intends to do his own graitbe casting his eny someone else to do it, he should see where he can secure the right kind of year to with which to top work his young orchard Not only should he be on the lookout where to secure the proper varctics, but there is another point his orchard. He should observe the bearing of of the trees from which he intends to cuality sclons.
This is a new theory to most people, and many the evidence gained there can be no doubt from a theory, but a well-established that this is not viduality of fruit trees-that some individua trees will far surpass others of the same variet care the very same conditions as to soil and and grafted into another will can such a tree viduality with it and perpetuate it Here simply another evidence of our ability to cont the forces of nature for our own benefit. and the fruit-grower should not be slow to take advan-

Good Potato Crop.
over 6,500 bushels of potatoes were grown on 31 acres the variety being the Rural New Yorker. Last year's
potato crop in Western Ontario suffered severely from The Asylum potatoes, however, were croparing lost from this trouble. In 400 bushels carried through winter in a pit not one potato was found rotten, and in the cellars are a large quantity now being use daily, perfectly sound. Other potatoes grown
similar soil in the vicinity Murdock, the farm superintendent at the Asy mum, states that the only difference in his meal at the rate of 300 pounds per acre, sow broadcast and drilled, in $r$ th the sead at planting time
On this farm, all the bones of slaughtered animals an dried in wribs and ground, about ten tons per yea
being made. Mr. Murdock believes that an applimation

[^5] new subscribers to the "Farmer's Advocate."

QUESTIONS AND ANSWRES




 not be efiven.

## Veterinary

## OEREBRO- BPINAL MENINOITIS

## A neighbor's horses, four in number, becnme drows

 a dur, having loss of power, spasms and twitching fall. A ves, unable to drink, would reel and sometimes cerebro-spinal meningitis, and treated accordingly lated stables, but had access to a small spring into which a number of partly decaye box drains were running, and in which muskrats had field on which quantity of also pasturing in Was there anything in this to suse the spread would you attribute it to the water? Would yo think it safe to let the horses continue to drink th whemically quantity of the water has been sent to b you think the manure might bronounced all right, do Huron Co., Ont.Ans.-An outbreak of this disease is always due present case, will probably be found to which, in the but it might be in the manure. The water should certainly not be used till you are thoroughly satisfie of its purity, and I would advise that no more horse should be pastured in this field this season, and it sweeny.
Kindly inform me through your columns of the cause, nature and cure of sweeny in a horse.
Welland Co., Ont.
SUBSCRIBER. Ans.-Sweeny is a vague and inexpressive ter applied to wasting of the muscles lying on each times one muscle only is fieted. Tlade, sitio occurs chiefly in young horses, and is cased by badly-fitting collar, bruising of the shoulder heavy drawing and jerking, especially in plowing lowing blister treatment consists in applying the fol ides, pulv., four drams : vaseline, three ounces mix. It will take from four to six months the muscle, or muscles, to regain their norma necessary. Rest and a long run at grass i pigs Alling.
clover pasture. Wher young pigs running out on feed they go around the pen with the back bent They eat well and nearly touches the ground Wentworth Co., Ont.
Ans.-The description you give of your pigs is not symptomatic of any disease, and is probably due either to their skin being sunburnt or to an some meal each day, and as the season advan and the clover becomes less juicy the trouble will likely disappear. If the trouble is caused by sunburn, unsalted grease or oll appliod should giv

## DEPRAVED TABTE IN COWs.

Will you please inform me the reason of and
cure for the habit acquired by some herds o cows of eating all the horse manure they can get Huron Co., Ont. YOUNG FARMER. praved appetite while in winter quarters a de a craving for the constituents of the soil, which usually passes away as soon as turned on grass has been mixed inee access to salt in which lime ime to ten parts salt.

Thave four cows and all summer. They eat and milk well the symptoms and treatment for tuberculosis? Ans.-There is no treatment for tuberculosis in cattle. The symptoms are very insidious and depend upon the organ involved. Coughing, such best means oi diagnosing is the cuberculin test would advise you to have fours tested. I am LAME MARE
Mare slightly over in the knees got lame in cight, no heat, lump or swelling. Feet appear all Ans.-It is' probable your mare has navicular disease. Give her a long rest and blister her
oronet once every month, in the ordinary way
of often described in these columns.

# 60. 

## THE FARMER'S ADVOCATE

Founded 1866
therision of the vagina.
$\qquad$ Ans.-. A megnant cow cannot invert the womb until aiter delivery. It is the vagina she inverts.
Tie her in a narrow stall, build up behind with
straw imtil her hind lies, are about $1 \frac{1}{2}$ feet higher than her fore quarkers. Keep her in the same stall after calving
until the inversion ceases. If this will not pre vent it, you will have to arrange a truss, which sion. In this case you will have prevent inverclosely, and remove the truss when watch her come on. Do not breed her again. When inver-
sion takes place wash with alum water, one ounce periodic ophthalmia.
My three-year-old mare is frequently affected ight, except the eyes are a little dull. When sore they run water, and there appears to be a
cum over them, B. D. Dufferin Co., Ont.
Ans.-Your filly has a constitutional disease alled periodic ophthalmia. The attacks cannot eventually go blind from cataract. When she is aflected, keep her in a partially-darkened stall, exgative of say, six drams aloes and two purginger; feed on soft food ; bathe the eyes well hree times daily with warm water, and put a after bathing : Sulphate of atropia, ten grs.; disLightning strokw.
thunderstorm and fent into my stable after partially lost control of his senses the horses had head against the rack and not noticing anything shown more plainly, and acted like homs wer blind staggers. I allowed him to sthorse with few days and thought he was improving, but when taken out he acted as bad as ever
Lincoln Co., Ont.
Ans.-There is little doubt he is suffering from lightning stroke. Give him a slight purgative of say, six drams aloes and two drams ginger; allow little grass and bran, and do not expose to the heat of the sun. He will recover control of his able time, so you must have patience.

We castrated a calf and it died in 20 hours.
seemed bloated when dying. It lost little Wellington Co Ont
Ans.-It is probable the calf bled slowly from cavity. It would have required a post-mortem to a certain for certain the cause of death. Death may have resulted from causes entirely independent of
the operation. The bloating indicates sto the operation.
trouble.
cows eating filth
chewing leather and bones that have a habit o be doing as well as they ought. Will you please veterinary columns?
Grey Co.
W. A. L.
Ans.-See similar query in this department.

## Miscellaneous

ting strawberries
I have about $2 \frac{1}{2}$ acres of good sandy loam, it
which 1 purpose putting strawberries this fall good crop next year may be, and if the returns would pay for the trouble of planting, etc.? I
was unable to put the plantation in this spring, and am rather doubtful if my plan will work out Hastings
Ans.-In growing strawberries the first object monly done by planting about the This is com-
in well-prepared in well-prepared soil, and then giving good culti-
vation during summer. By fall there will be a
thick row of plants firmly bear a good crop the following season, if conditions are favorable. By planting in the fall it cannot le expected that the plants will be very is doubtrul if they would be as far advanced by
the second fill as they would be if set in ing ing We "lo not approve of the plan of plantland pood treatmont in the fall and planting the tonewng spring. Some of the plants will bear
the first semane the are set out, but this should not be allownll Whan cultivating, any blossoms that appor stom ho nipped off Better grow
an

## 1. I send yoult ANO APPLE-TREE SCORCE

 Houble Has never resembles brown rot, but that least a month later than the present time (June 20th), or when the plums are full size and begin2. I also enclose so and fruit buds, which appear in little bunches Mamps among the green ones all over the tree identify and suggest locality are affiected. Kindly Advocate." suggest treatment in the "Farmer's Western Ontario.Ans.-1. The cause of the early rotting of the pluns is a fungus called brown rot (Monilia fruc-
tigena). the rotting of the peach and cherry bus causes not usually make its appearance until July. Coes ditions for its development this year, however have been very favorable, as the early part of
May was abnormally warm May was abnormally warm. This fungus winters hang on the trees. On the return of spring spores are produced, which are carried to the young leaves and fruit. It is worthy of note that all the speoimens which were sent in for ex-
amination were stung by the curculio possible that this insect may curculio. It is quite agent in inoculating the half-grown plum cool weather conditions of late have probably been the chief factor in the production of the fungus penetrate the tissues. Threads of the directions, and soon kill the tissues, producing the characteristic brownish rot. To-day I found the characteristic spores of the fungus on the sur face of the plums you sent me, which I had kept parently on the increase in the disease is ap greater attention should be given to the picking and destroying of the nummy plums on the tree before winter sets in, and to early spraying with
the Bordeaux mixture 2. Many complaints
the last two or three weeks reegarding the dead leaves and fruit which are found on apple trees
This is the This is the result, I believe, of the excessive transpiration of the moisture from the leaf during on the leaves began to appear about this time It is not due to any fungus, but rather to sudden scorching and the transpiration of more water from the leaves than the roots can supply,
$\mathrm{I}_{\mathrm{n}}$ the summer of 1899 this scorching of the leaves was very prevalent in many districts-cherries, of it. and sugar beets showing evident traces Ontario Agricultural College.
probably
PROBABLY TWIG BLIGH
probably twig blight
same as enclosed. The more fruit on the trees, the more it is affected, Talman Sweets the tree worst. I sprayed once with copper sulphate soluing, first time, four pounds copper sulphate, four pounds lime, to forty gallons water ; second time, forty gallons copper sulphate, five pounds lime, and green to each forty gallons water
2. Thave a book which says to prepare 13or-
deaux mixture as follows: Dissol sulphate copper in fillows: Dissolve six pounds pounds lime in six gallons water. Would that be too strong?

1. The specimens are not in very good condi-
trouble. On two or three of the cause of the
mer stage of the sumThe stage of fúsicladium (apple scal)) is showing. holds this fungus in check. Cool, (amp weather is very favorable to its development. The cause probably, twig-blight. This is a bacterial disape, to which the pear and certain varieties of tree through the blossoms and soft-growing the the teavigs, and is identified by the reddening of tips of the twirs browning and shrinking of the tips of the twigs. The germs are said to be This theory be true, it accounts for the fact that while the others escape, owing to differences in most percoweringe on At any rate, the disease is maining on the tree, give it, in fall, but $r$ e appearance. For this disease there is no other also Nown as mimpht.
2. Your own mixture of the ingredients of the Bordeaux mixture was not too strong. In the of copper sulphate, popmar mixture is six pounds filty gallons of water. Canadian horticul-
turists generally use a third and the same proportion of lime, but ten gallons We Water. DEARNESS.
pomms copper sulphate, three pounds lime, anit 1roi. Weed, at the Ohio Station in 1889, and als results 1890, showed that apparently as goo phate, four secured from six pounds copper sul which became pounds lime, and lifty gallons water States.-Editor "Farmer's adopted in the linited

## Curing meat

very glad of your advice re valuable paper, 1 will be meat in brine. I recently purchased a for preservin and, upon the direction of the butcher, put it in solution of salt and water "strong enough to float potato. By degrees the meat has become so badly not exactly putrid in smell, rank is more th. It It started to "turn" when it had more the word a month, and hoping to save it, I changed the solu being that to no purpose. It was put in the brine after meat here out from the refrigerator. As purchasing naturally anxious trects a.consideraple saring, I an lied on through all weathers.
becon.-l is more than probable that the meat had While there the before it was put into the refrigerator checked, but upon beiny thawed out taint would be forward. Brine of that strength invarlably again go neat if pure when put in. See April 1st issue. hime and kainit for midge.
Please tell me through the "Advocate" how much what kainit is, and where it can clover midge ; also. Norfolk Co SUBSCRIBER.
hould -10 check the clover midge, lime or kainit the larvee are preparing for winter harvested, when ground. This treatment will, of course, only reach
what inser the heads in the barn. Kainit is a potash found in containing about twelve per cent, of pure fertilizer is imported in large quantities from Germany. It is The of the cheapest of commercial potassic manures. From two hundred and of Hamilton, will quote prices. fer acre is a good application. From tons of lime should be sufficient for the checking of
midge. sick hens.
Can you tell what is the matter with my
hens? They are well car hens? They are well cared for, but have lost
several lately, and more are sick. They get
"dumpy", mope around mope around, do not eat, and finally Prescott Co., Ont. OLD SUBSCRIBER, from the symptoms given, as that the trouble general nature. Would ecomme are of such for lice, and also thorough cleanliness in tio whitewash the wall and floor a good coat of a tonic. Dissolve come do no harm to give to the consistency common hard soap in water iul of this to the gallon of water, it will act Green onions might and clean out the throat or red peppers dried and to tone up the system mash, would be excellent. Be careful, fed in a time of the year. Make sure the grains at this

## Could mou mile tester

your paper where I can get a milk-testerns of are the standard tests of milk and cream
vertising - Write the creamery supply companies adonly the milk of the cows for buterired to test ware required is a Babcock tester and the alas is to be tessary to make the test, but if the milk also be remmireor adulteration, a lactometer wil allowed in milk suppo minimum amount of fa difierent countries and in different parts varies in est allown. In most places $3 \%$ fat is the low $3 \%$ fat anil Milk, however, may contain ove this adulteration or skimming or skimmed, and lactomet thy the use of the Babcock exactly demilk or cram, han suspected samples are detecter This black spots on pigs.
$\qquad$ litter of She has farrowed, and has black sime some as large as a several

Ad Ansen are really black, both skin picion
if thin are not pure-bred Chesters,


THE FARMER'S ADVOCATE.

## unteriety pigs

 They get dry in the hair, get paunchy wech growing. This spring 1 scalded all thei (shorts at first), and mixed with skim milk On fed oat chop and skim milk; still they slowfailed-you could trace their skeletons their skin. When I turned them out on luous clover the smallest of them took scours; eight
ten died. How much feed should ten died. How much feed should a pigy
weeks old get at a time? I feed a bunch weeks old get at a time 1 feed a bunch of te
piss about half a gallon of slop three times piss about hal a gallon of slop three times
day; slop not very thin. Am I feeding too muc or too little? Is oat chop and mangels good food for a sow when nursing pigs? 1 s it wrong
to have the pigs eat with the sow at feediur time? I give them shorts and milk in a trough less of the sow's feed. I always have my pigs in clean and warm quarters, and cannot account ior my failure.
Bruce Co., Ont.
Ans.- $\boldsymbol{A}$ half-gallon of swill to ten pigs woul seem to be light feeding, unless it was very nutrifood, it might be well to try a change, givins their shorts and chop dry in one trough, and milk had pigs do exceedingly well on this method iceding. This case seems to indicate a lack of constitution in the pigs, and raises the question whether they are bred from parents too close suitable feed for a sow nursing pigs and mangels have more nutritious feed, such as shorts and pigs are a week old. With this kind of feed sow, but warm milk should be supplied them in smeding clovern in oors.
$\qquad$ Carleton Co to it? A. E. Ans.-A stand of clover is sometimes obtained prevents mowing the clover with a machine, hence clover is for pasture or manure, or on limited arth cases the seed is sown broadcast just before thicker than usual, is much of it, will be sow. lodging in the leaves of the corn, and, possibly Tindegistering jersey calf. baper, how old a Jersey cali should be betore is registered in the "A. J. C. ©,"? Also, how to Ans.-If the call is registered before it is two Write the secretary, Mr. J.J. Hemingway, \&
West 17th St., New York, Mor bank forms of and ilication and rules.

> I would like to ask if you think it advisable to try the green-saving of clover without the use
of a hay tedder? Ans.-For the speedy drying of clover and timothy the tedder has come to be regarded as
almost indispensable under most circumstances. almost indispensable under most circumstances.
The principles and practice of green-curing clover "as very fully set forth on pages 550 and 566 drifing up a'cow I have a heifer two years old that is very hard
to milk. How can I dry her up ? Ans.-If possible, keep her ofi the grass a few
days and milk her once a day, gradually extend ing the time to every other day. Only milk ther to ease her udder. If a cow is not milked she will dry up in a short time
ittachment that we if there is any device for an B. U. The only apparatus of the kind is fable that is attached to the cutting bar of a
mowner for the purpose of gathering short clover would not leave it in sheaves that could be WaLl lambs.
What breed of sheep is best suited for fall Antigonishe Co., N.S.
Ins.-Dorset sheep, advertised in this parme
IR. T. Harding, Thorndale, (hit... bring carlien IR T. Harding, Thorndale, (nit, bring bartior Ferrets wanted.
Where can T Trocure ferrets, or fitches? I
are watched the advertising columns of that are watched the advertising columns of the
hwocate in vain for somene time, hoping tw
ht the name of some lweder oif furente
bladder campion in lambton
How to Save Money
in one of my fields. I lought the farm last fall, and I would like to know what thick with this, hest means to destroy it, and if it is a bad weed? Lambton Co., On't. C. II. 12 . Ans.-This is bladder campion (Silene inflata), the of the cockle family, sometimes called catchntly campion. It is quite a persistent weed, the respect, they having annual root stems in this tem of crops that introduces roots, corn and red clover quite frequently will keep the weed in check. It is most frequently introduced in grass and clover seeds, and thrives well where grain bladder campion again.
Please inform me of the name of sample plant enclosed, also what is the best plan to get rid of same? It is growing thickly in one of my
neighbor's fields. Is it injurious to crop, and what is its character?
Ontario Co., Ont.
Ans.-This is bladde
Ans.-This is bladder campion. See a similar
anery in this column. It is something o cockle, and should be stamped out im it spreads quite easily in seed of grain, grass and other question to subdue it
bindweed in nova scotia
Iikelyclose herewith a sample of a weed that is hay to overrun my fields and destroy all the spear of hay to wherever it grows there is not a me its name and the best way to eradicate it? Ans.-This is a specimen of black sind:weed
(Convolvulus arvensis) the very worst weed that we know of. Carefully read the article in April the field is a targe Conquest of Bindweed."' I the practice of digging out the roots as mibe tioned in the article, you had better keep it in roots, rape, corn, garden crops, etc., until the NOTES AND NEWS.

## The Eastern Ontario Winter Fair.

The Ontario Legislature has empowered the city of
ottawa to issue debentures to the extent of $\$ 10,000$ to provide funds for the erection or a building to permanently house a fat stock and poultry show. Three chousand dollars has also been voled to aid in financ-
ing the show. In spite of this, however, it is scarcely thought probable that a fair will be held in Ottawa this year. Last year the show was not the success i
should have been, largely because it was yery late should have been, largely because it was very late in
being announced and farmers had but few animals held over that they considered worthy of exhibiting. Many
were disappointed, when coming to the show, at the way many of the classes failed to fill, due largely to This. Although it is thought this deficiency could be
entirely obviated another year, there $1 s$ not yet nor is there likely to be any suitable building available in tirely for the show. The one used last winter was ent pleting the whole experiment. Another difficulty which set remains to be solved is the proper date. It is
impossible to run concurrently with either Guelph impossible to run concurrently with either Guelph or
Umherst, on account of the same speakers having to be would contlict with the chicago International, and to would confict with the Chicago International, and to
have it after Amherst runs it into Christmas week. that there is not at that season the demand for highpriced meat that there is during the Christmas season.
In ali probability, ther, forere the officials will delay
action for a year in hopes of completing all arrange-

Eastern Ontario Crop Prospects.
In two weens the outlook of the average farmer in the mitdle of June crops of atl hinds were becoming
 was isitall with several dave simaly dain followarl by
$\qquad$
$\qquad$
$\qquad$


Mangolds did mot turnips instead. Good crops of all the grains are ex
pected. Hay generaliy will be limht in this countren the rain was rather late in coming to be of much benefit, but strin, except on very light land, there will headway. Good seed corn was smate and hard to fair The prospects for apples are not ary bright, but the are fairly good, much in different incalities. Pastures May milk averaged a little over (4) cents per 100 founds to the patrons who hauled their own milk, and heasek 11.05 pounds of milk to make one pound of Our factory is getting a larger flow of milk
than in any previous year, several farmers having left the creamery on account of the high price of cheese. heese that was made on Saturday' evening was shipped on the Monday afternoon. The price is a littie easier now, but is ruling about 10 ents.
There has been considerable mortality amongst Uuiry cows; mostly milk fever. The articles in the imely nature, and to an intelligent reader of a vere wort the cost of twenty-five years' subscription to the paper. The articles on the care of the brood mare at foaling paper were really splendid. I read them over when the cate" out to the stable and read again the Advoof the lantern while I was watching the mare. Quite number of farmers have lost their colts, some of which could have been saved by following the carefully fifty-dollar colt would pay for ". Advate. A fifty years. That would be an easy way to get the laper, and look at the valuable information given in every other department of farm economy. The Canadian farmer who does not subscribe for this, which is wise and pound foolish. Live hogs are, a little easier in price, $\$ 5.50$ being paid last week, with the tendency downwards. We had bunch of spring pigs that had got a little sunburnt, rained, we took soft ave them a good clean-up and opened the pores of their skin, and gave an application of Little's Sheep hip. They seemed to thrive much better afterwards. pest ine dhis neighborhood docks are getting to be quite lerience wifl give us, through the ". Advocate," a
cure and inexpensive method to exterminate theso pest he will confer a very great benefit on us. but we do not think that much more than fifty per healthy living colts. Quite a number did not ret in foal at all, and quite a number of foals died. Several men were gathering up calves to send to
Toronto to be manufactured into "canned chicken," so sins. We gaved the troubte of $\$ 1$. 5 g them for the uge and size

## Peel Co., Ont.

The hay crop is going to be very short, and many mangel crop is me district, and they mostly all have been cultivated up and resown with turnips or corn. Owing to recent well, but those that were put in later will be short nd light. The clover will be cut earlier this year, on forward for a second crop, which, no doubt, will be much heavier than the former. alsike As this is a good section for alsike, beekeepers bring
heir bees from far and near and place them on the farms of those who grow alsike. The effect that the bees have on the bloom adds greatly to the yield of
the alsike. The strawberry growers find it a difficult Cask to secure pickers in Port Credit and Clarkson disThey, are driving over the country and drawback. ndians as far as Brantford and Westem Sondario, for they only meet with partial success. The rains have
loaded the vines with large red fruit, nod in three and five acre patches there are only to be seen about half
a dozen bickers. The growers ane and over it. Some have sent to the tmmigration offices or hep, but without success. Strawherries are ay
O. A. C. Graduates at Work.
thral follome buye already enteren une" work aloms

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$\qquad$
$\qquad$

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## Central Canada Fair, 0ttawa.



International Judging Competition



THE FARMER'S ADVOCATE
Flatt \& Son's Vorkshire Sole.



Eighth Annual Heeting of the American Association of Farmers' Institute Workers
ciation the annual meeting was hell on June 23 rd to 26 th. The held in Canad vened at the Parliament Buildings, Toront Delegates were present from as far south a Texas and Alatana, Fastern as far west as Regina inces sent up several of their haritime Pro agricultural subjects. Representatives of the dif ferent States and Provinces reporting were. M. Conner, OI Alabama ; W. Webb, Delaware ; C. Latta, Indiana; L. R Taiterly, Minois; Man, O. C. Gregg, Minnesota! J. C. Hardy Dye, New Jersey. Hublird, New Brunswick; W. Kilgore, North Carolina, E. E. Kaufmat tories ; W. W. Miller, Ohio ; G. C. Creelwt Ter tario; A. L. Martin, Pennsylvania: U. A
Gigault,
Quebec; Geo. Mekerrow, Wisconsin Prof. Brown, Connecticut; W. G. Vincenheller Arkansas; Dr. Sylvester, Maryland; John Hamil
ton, Farmers' Institute Specialict During the past year Prof w. La Fayette, Ind., has been President; Major J.
Lee, of Baton Rouge, Ia.. Vice-President and PIRFintoronto Secretan
Premier Ross, of ROSS' ADDRESS
culturists of the United States and Canade , flattered the Americans upon the example an schools 1 in the teaching oi agriculture in high supported the commisserated our neighbers institutions, their failure to look at trade relations in on broad light in which we regard it in the said the Premier, they will learn better.
the address of welcom Mississippi, responding to portant part Canadians had played in the velopment of the agricultural played in the deState of Mississippi. The influences emanating the agricultural have rejuvenated and stimulated raising agriculture from the lethathern States, the degenerating influences lethargy into which slavery had plunged it, into a vital, progressive The anductive industry. Indiana, emphasized the of Dr. W. C. Latta, of Farmers' Institutes had been conduct that the much intelligent discussion by farmers enpincers cientists and others, which had materially raised THE PRESIDENT'S ADDRESS
inque place in disseminating the Institute holds a results formulatod and obtained by the edge and mental farms ath agricultural colleges, and expounded the doctrines of bulletins and of the aex the instituin. And, further, the personality of creases his interest in his business farmer and inany other influmence could do. The requisites than a directing hoard of management of institutes but he conservative, but broad; enthusiastic, have ample power to accomplish thent should good. Packers at meetings should have : dge of cuantry birth, with a thorough 3rd-1 Shm have a good school education.
1th-Shom haricultural education.
some part inult have a special education along Iust in moportion as we has that that implies

JULY 1,1903
ee embryonice elocutionist should hee
the front.
The problems beriore the farmers' are: How reach the great inert
iarmers and inspire them to achieve more than mediocre success: how to soung men and woinen of the farm to seel the quate preparation for life in the country suld success on the farm; how to get toin rank and
file of farmers and farmers' wives to seo that telligent labor is not drudgery, but see that inblessing to him who performsery, but a joy and and that the re-
wards of such labor are as wards of such labor are as sure and satisfactory
on the farm as elsewhere ; how to set the age farmer to realize that: the farm the aver-
ideal settivg the age farmer to realize that: the farm gives the
iteal setting for a cosy, convenient, sanitary and
hieautiful dwelling: how to 'ealize that the farm furnishes just the conditions for an ideal home in his beautiful dwelling ; and how to encourage and arouse the poor, tired
farmer's wife not only to yearn for, but also to resolutely strive for such a home, and meannwhile
seek to equin hersolf seek to equip herself mentally and spiritually to
loold gentle, sway theroin. But to destay
root the false ideals which leard thowsands uparivers and mothers to undergo slavish toil and
privation to accumulate material rich a their untrained and uneducated children which squander and quarrel anout, how to get whil
parents to see that their miscuided thoug well parents to see that their misguided, though well, 1rove harmful, and likely to he disastrous to them ; how to get the "practical", farmer to plan
and act as if he really thoust and act as if he really thought more of himself,
his wife and his children than of his acres and stock ; how to cret the than of his acres and that the farm offers better opportunity for imfactory; how to get them to realize that agri cultural education increases the earning power of
and adds zest to life in the and adds zest to life in the country; how to
banish forever the farmer's low estimate of him self and his calling, and his petty jealousies, with prevent him from intelligent co-operation tion and advancement. The greatness of your
opportunities as workers is the measure of your opportunities as workers is the measure of your
responsibility.
training for institute work.
Hon. Franklin Dye, of New Jersey, addressed
the convention on Wednesday morning urinn : The training for institute work: prime qualifications By reasors, and how to ohtain them,", and said tute speaker must have farm work, an instiknowledge of the subject upon which he speaks.
Visionary theorists, semi-oratorical speakers "droney", utterers of semi-oratorical speakers and In the future speakers will he required to bitute. thoroughly trained than have speakers up to the present time. The prime qualifications of ap speaker, according to Prof. Dye, are: 1st-A gentlemanly, dignified appearance-not
foppish; not slovenly, ropps, 2nd-A good, well-trained voice, giving a clear
and impressive enunciation 3rd-Chaste speech; nothing is gained by vul-
garity- or careless 4 th-Should have someth
to the point.
5th-Should not use sarcasm in answern may be put.
bith- State all important matters so cleally Wat they need not be misunderstood
Some institutes demand adrest
Tanced lines, others are in the primary class ad still others have pupiss in all grades. We may
iot introduce the graded institut tical" farmer should be encouraged to speak "prac class of speaker that we should appreciate is the scientist who is at the base, and who is looking ciples trying to understand the essential prinand profitalle wrich the superstructure of correct purpose of the institute being to correct and elevate agricultural thought and practice, it follows
that the standard of institute work nally be elevated. ${ }^{\text {at }}$ This growth will not bre so ing something better. Schools of it will by havfoclamation might be endowed and equipped rain speakers. The work of the institute speak, hiscouraged with their conditions. Too many ig--hemistry and rational practice. They seek to increase their income by adding profitless acres;罂 adding to their dairy herds animals not capaDle of paying expenses, and they lose by unvise
rations for farm animals. This is the class we

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 given special instruction in the different branches
of farming, and aiterwards won of farming, and afterwards were put upon farm and given a chance to work out and put in prac-
tice the theories taught at the schools. When such training proved successiful, the fortunate student made a most useful institute coreaki estuMr. Dawley, of New York, brought to the no lice of the convention the necessity of uniformity
of ideas in the different institute speakers accomplish this end, the institute speakers. To York held a week's convention before going upon the road. Addresses were delivered to this different branches by the highest authorities on ence. It had been found that unless a uniformit of expression and presentation of truths by arose among followed, diversions of opinion credit upon institute work. If we are to mak an impression upon a piece of iron we must al
strike in the same place. G. C. Creelman, of Ontario, called attention to week's special lectures wrepkers derived from paign. The educational features of the winter fair and the experimental union were made use opinions and their doctrines made to dovetail, and the importance of principles was impressed rather identical detais , hough arying, gave ~The subject
was taken up by Prof. L. R. Taft, of the Michi gan Agricultural College. The drift of the address was an outline of institute work as carried tutes is followed some of the States, fers very widely from others. Permanent organ izations are found to give better results than temporary ones, or those in connection with the Mr. O. C. Gregg, of Minnesota, discussed the cal, and who wecuring speakers who are practifavors the pla having work well organized and directed from a central point to avoid sec but also tact. As President Roosevelt power " Speak softly, but carry a big stick " says Mr. Creelman pointed out the advantages permanent organization for the purpose of main Organization of institutes in Ontario year complete that if the superintendent should so out of the work there would be a dozen other cessfully courd conduct operations just as suc Accossories in are at present conducted. of a paper by Fred H. Rankin, of Urbanabject Mr. Rankin would encourage the hoys in institute in plowing matches, etc., and thinks the institute should be extended to the boys and girls The following officers were elected. President B. W. Kilgore, North Carolina: Vice-President 4. E. Kaufman, North Dakota; 'Secretary-Treasarer, G. C. Creelman, Toronto (re-elected). ExeH. G. Easterley - Illinois McKerrow, Mississippi; sissippi.

## The Ames Suspension

ronto, Ont., bankers, and stock biokers, bids fair to be inty of a temporary character. As already intimated from an uncalled for depreciation in certain stocks
which they were handling for investors. They have been enabled to issue a statement showing a surplus of upon a basis of payment in full with interest liabilies per cent. This has given very general satisfaction to Che public. The confidence reposed in them, not alone by their creditors, but by the banks, whose course has
done so much to save the situation, must be gratifying

## The Weather.

The weather man at Toronto has announced that Judging from average conditions and temperatures ex-
tending over many years, we are likely thang on average amount of are likely to receive more summer. We don't like to hear it, but we know from experience what to do when it rains. It is to be hoped, year notice to neglect the earth mulch in the corn and root s well to be weather forecasts are only guesses, and it

## Postponement.

As we go to press, we have received a telegram
from Hon. M. H. Cochrane, of Hillhurst, Que., post

MARKETS.

## Toronto Markets.

$\$ 4.80$ to $\$ 5 ;$ medium, $\$ 430$ to $\$ 4.25$; general run to $\$ 4.25$.
hoice, $\$ 4.40$ to $\$ 4.50$; fair lots, $\$ 4.60$ to $\$ 4.80$ ows, $\$ 2.50$ to $\$ 3$.
medium, $\$ 4.40$; Feeders.-Best Teedlers, $\$ 4.40$ to $\$ 4.60$ to $\$ 4$.

Calves cows, \$30 to $\$ 50$ each
Sheep.-Export, $\$ 2.75$ to $\$ 3.90$; lambs. $\$ 350$
Hogs. $-\$ 5.75$ for selects, $\$ 5.50$ for light and fat
grain and produce.
Wheat.-Red and white, 74 c ., middle freight; goose,
ransit; No. 1 northern, 88 c . Barley.-No. 3 extra, for export, 44 c . to 45 c ., and o. 3 at 42c. for export.
Oats. Oats, 31 c . north and 34 c . at Toronto, and 33c. east for No. 1. Corn.-Canadian, 53 c ., and 55 c . for American, on Peas.-Sold for milling purposes at 65 c . west, and 4 c for No. 2 for export, middle.
Rye. -51 c . middle and 52 c . east.
Bran.-City mills sell bran at $\$ 16$ to $\$ 17$, and
shorts at $\$ 18$, car lots, TORONTO STREET MARKET.
 $44 \mathrm{c} . ;$
$\$ 1.75$ beans, $\$ 1.30$ to $\$ 1.50$ peas, 78 c t. beans, hand-picked, wheat, 43c. $\$ 6$ to $\$ 9$; straw, loose, $\$ 5.50 ;$ straw, then ; clover, $\$ 8.50$. $\$ 8$; per bul. and vegetables.-Apples, winter, \$1 to $\$ 1.25$ Poultry.-Chickens, 80 c, to $\$ 1.25$ per pair ; spring urkeys, 12c. to 15 c . per 1 b . Dairy Produce- - Butler, lb. rolls, 16 c . to 20 c .
eggs, new-laid, 16 c . to 18 c . per dozen; cheese, 11 tc
to Fresh Meats.-Beef, fore quarters, cwt., $\$ 4.50$ to
 $\$ 6$ to $\$ 7$; spring lambs, each, $\$ 3.25$ to $\$ 4.50$; spring lambs, d's'd, cwt., $\$ 11$ to $\$ 12.50$; veal, carcass, cwt.
$\$ 7$ to $\$ 9$; dressed hogs, light. cwt., $\$ 7.75$ to $\$ 8.25$.

## Chicago Markets.

Chicago, June 24.-Cattle-Good to prime steers,
$\$ 5$ to $\$ 5.50$; poor to medium, $\$ 4.25$ to $\$ 4.00$,
 $\$ 2.80$; bulls, $\$ 2.25$ to $\$ 4.25$; Calves, $\$ 1.60$ to H, lexas-fed steers, $\$ 3.50$ to $\$ 4.60$. hoice, heavy, $\$ 5.75$ thers', $\$ 5.70$ to $\$ 5.80$; good to \$ $\$ 5.75$; light $\$ 570$ \$ $\$ 5.85$; rough, heavy, $\$ 5.60$ 8580. \$ $\$ 5$; fair to choice, mixed, $\$ 3$ to $\$ 4.25$, $\$ 4.40$

## Buffalo Markets.

steers, $\$ 5$. heifers and culls, $\$ 2.75$ to $\$ 4.85$; bulls, $\$ 3$ to $\$ 4.25$; Hogs, $\$ 5.25$ to $\$ 5.35$.
Yorkers, $\$ 6.30$ to $\$ 6.40$ to $\$ 6.35$; mixed, $\$ 6.30$ roughs, $\$ 5.40$ to $\$ 5.65$; stags, $\$ 4$ to $\$ 4.50$ to $\$ 6.55$ Shep and


| Montreal Markets. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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| 50 to 85. |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| bs. 82.50 to 81.50 earh |  |  |  |  |  |  |  |  |  |  |  |

## British Live Stock Markets.


poning, the sale of hishrerde, of Shorthurst, Qued, post- have been
held at Hamilton, on Auruat 11th

In Marion Co., Indiana, 48 Unions of the
American Society of Equity have been started, the
object being to get $\$ 1$ per bushel for wheat next


Sing a song of roses,
The garden all ablow,
White and cream and
dottings from the Isles of Scilly.

In quaint old Devonshire dialect I shall now We able to say, "I've abin" to Scilly at last. had an all too short holiday amongst those wonderful Islands, and on leaving them made up visit them once more. The time and the opportunity offered at last, rather late in the day, it is true, but not, I am thankful to record, before my old joints became altogether too stiff to carry over wind-swept blufis, trewn with shells, and in and grouped narked fecks, which are a cenery, and which Scilly Island turies stood as dumb witnenories so wrapt in th mysteries of the past that it
almost impossible to separat act from fiction, the real fro the ideal, actual happenings iro s one of Scilly's greates harms, especially for th imaginative, whose pretty litu net by terribly knock-dow blows from prosaic geologist no matter-ol-fuct scholar:
plinter of bone can give you which no one would attempt olks dare not positivel ssert that f the ", F'aire land upon a time, far back amongst the ages there did whet a not exist "a plain stretched from Land's End to Scilly, and that upon this plain was built the and villages dotted here and thes, smaller towns tempest arose, accompanied by a convelsion a mighty hature, causing the sea to break over them of submerging nearly the whole forty miles of inhabited coast, and wiping out Faire Lyonesse Scilly the iace of the earth, leaving only the Rock standing out above the waste of waters." The history of Scilly, or "Rocks dedicated to he Sun, is that of Phornician mariners, Druidic armixture of Norse pratical descents upon the Cornish coasts for raids up the Bristol Channel, until in A. 1), 927 Athelstan got the ufper hand and ousted the inA most chequered history is that of the Sciliy
sles, but one well worth the study Book has no record of them, so one can only suy, value as property. Later on this was not for the Abbot of Tavistock held a large proportion of them until the dissolution of the Monas-
teries in 1539 . Thievestand pirates had possicsion of several safe refuges amongst the thi, oulders, concealing their hiding plat he hir ano in one island should take refuge in the time of Henry VI. the Istands "were held in. constathes forn in for cmergencies, which never the king at "a yoarly rent of difty puffins and aid mony being onco the story goes that, the cerehillings and "ight pence." In Richard 111.'s Une Gom on a mail, and there it remains for his tome their value was returned "at forty shillines. Wom oflice until his successor transfers it to
$\qquad$
$\qquad$
are of a very general type, where your may get
everything from a gorgeous hat, with cockatoo pins, but there is, to arying pan or row of ment, no catchpenny attractions to embellish passer-by: If you want an article in Scilly you go morder and aiter patient wait previous "" shopper", gossip is over between times you' get it and sometimes youretor, some as a possibly proftable customer your ne are not a Scillonian, but a "foreigner," and as such have naturally your limitations. H. A. 13.

THE QUIET HOUR
One of These Little Ones.
Shepherd signs His lambs in hast
Cire on the mountain waste
Aloose them, far and wide to stray
And whoso mars their way,
nd whoso mars their way
scorns the awful name th
hat Shepherd counts him foe.
painted the front doorsteps a few day ago, and did several other routine jobs which left over and over again in my brain : "What shall I write about this week ?" brain : "What shall Quiet Hour " is typewritten and sent of the "Advocate" office, the next has already begun not itself on my attention, but this week it What does it matter after all ? who time or energy to read sermons in July ?,' Sure ly Satan must have whispered that suggestion i oo much but 1 respect the "Advocate" readers loo much to send them anything less than my best-whether they care to read it or not-and I
who has given me the great privilege of carrying 'His mes sages to thousands. I dare not carelessly fling away such a $n$ While I pondered the quesreally no particular messag that He wanted me to pass on reachod me from, a friend in To ronto, asking me if I could in
terest any of my friends in th My friend says: ". If some o God's people, surrounded by al
the beauty of their country homes, could see the eager
pinched little faces that have been asking us for weeks past t would long to share their, The childon. try places, within reasonable distance from Toronto, for $t$ wo and two, so as to pre vent homesickness, and the Mission pays their cular enclosed by my friend: "" Is a child worth saving? One has said, if you save a man you a life.........God opened the hearts of friends in all parts of Ontario, to receive these needy and deserving ones. And the best evidence of the gen erosity and hospitality of these friends, is the real good time, and always as much as they could eat. Many of them had never seen the country before, and to them the sights and experiences on a farm were wonderland. It rejoices girls themsolyos how the friends wore boys and ested in threir spiritual welfare as to teach them a morning and evening prayer. Where do the
children Wherever the hearts of God's children are opener lieve ther are many living on goodl comfortable need of theco comitry who, if they only knew the need of these children, would be onlv too glad to
receive thon for a two weeks' holiday..........We desire to send thon all out early in July.". think we mipht malp a little in this work? The Secretany of the Mission is C. D. Gordon, Do (all hols, with wher St. Branch, Toronto. Som
 II.) 1. It is not our Father
these little ones should perish Nat to lead one of these childrel

Huly 1, 1903
 Chit we should not actively cause
tend--God punishes sins of omission sins of commission. The rich onsion as sever...
torments after death who sinl crime but that of selfishly neglecting the man he might have helped. Do not let be forced to say to us, "Inasmuch as ye diot not to one of the least of these, ye did it not the
Me." He never forgets the smallest kindlunas done for His sake, and says, "Whosoever shall give to drink unto one of these little ones a cup
of cold water only in the name of verily I say unto you, he shall in no wise' lose his reward." We can give not only water but rich
country milk, either with country mik, either with our own hands or by
sending money to help the Fresh-air Work ,Think of the wild delight which poor city children find in the hay-field, gathering eggs in the barn. feeding chickens, eating fresh fruit, and having a glorious time out of doors. "Feed my lambs,
says the Good Shepherd, and bodies and souls if we are willing to take both trouble. Riis tells of a lad who was hanged as a murderer at the age of nineteen, and who ex plained his crime by saying, "I never had no Another boy, who was only fiit
teen when charged with murder, was horn in section of New York where more than three hun dred thousand people lived "out of sight and each of a green spot of any kind." He grev right of a reasonable quantity efry. boy's birtholay. Who can blame him if his highest happy tion was to have his name in the papers as The children al
desperate case as that into are not in such a country are the "" best behaved and mout to the ing boys and girls." What are we going to do about the matter this summer? Surely we can a distanee, remembering our Master's words, Whoso shall receive one such little child in My Ye elder brethren, think of this
Think of the mighty bliss,
Thould He, the Friend of babes
The worts of bessing
My seal upon My lambs ye know,
And think upen the eternal loss

## Dainty and Pretty Rose-bags

 Our grandmothers considered daintiness in every detail to be the great secret of a gentleshown more effectively nor more daintily than, in their selection of perfumes. Every ladite perfume, and from my dear old-fashione grandmother I have learned how she gathered the ly in Virginia gardens, which grows so plentiful-oosely-meshed bags, sprinkled over thent fer drops of some aromatic tincture to coax out of them their peculiar sweetness and then scatter the She did not confine herself to the blush ros but gathered all varieties early in the morning, newspapers spread upon the floor. Several times be sure the day she tossed them lightly about to morning she made flat bags of common The next netting, which she filled with rose leaves bags were then placed for a day on the paper thrned occasionally, and on the morning of the third day sprinkled liberally with violet toilet drawers. More expensive rose-bags may be madle if de-
sired. Threads may be drawn and two or three
rows of lace may ribbon darned in the spaces, a frill of ribbon fastened about the edges and tiny bows illusion may take the place of the netting as or receptacle for the delicate leaves.
Whenever the fragrance becomes too dull, an${ }^{\text {lus }}$ th) another outpouring of old-fashioned sweet-

To Our Lady Readers.
Wiefore going to the fair each of our lady Whand or wrist bag. We have now a large *Why of these goods on hand, purchased in aterial in these bags is the very best, and they ly need to be seen to be appreciated. The -adlers, while particularly suitable for our younger aders, while the larger is none the less adapted 1 the use of our older friends. A little talk un bags. Seap, will secure one of these pre-
premium page, 617 .
'HE FARMER'S ADVOCATE.
THE CHILDREN'S CORNER

Pelits Bucherons

## "Our baskets are full: there's no hurry, youl now

 To rest for a while, a's our picture dothTo For a rest fairly earned the three faces are l.ripin. Mar:e chatters gaily in girlish deasant indeed The others more quietly follow delight,

## o money have they, yet true riches are theirs

 Light-hearted and healthy, gay, useful and free,Fach day brings much gladness
To Annette gid Celegte and and very few cares little Marie.
COUSIN D

## A Chat with the Boys.

 Ces, boys, I know quite well that this is the dren, although you were young once, you know and not so very long ago either. But surely was brought up in a family boys sometimes. boys in S. S. for allout twenty years have taught of my best friends are boys-at least, I consider them boys yet, although many of them have long ago left their teens behind. Friends are worthhaving, I can tell you, and I hope each of you to do this, you must be a true friend yourself. hot making it the chief object of your life to look aiter Number One, but holding yourself prepared


COUSIN DOROTHY

## Domestic Economy

## -

early days was of with herbs dressed with vinegar and Now, eggs, many kinds of meats, fish, fruit and -many yegetables, cooke well as r a w with a dressing conaining oil, butter cream, are used. recessary in saladmust be cold, the ingredients in the dressing must be honed and blended o that it should de neither oily nor ell mixed. W it h
hese conditions ful ettuce leaves dressed with salt, pepper,

PETITS BUCHERONS.

Of course you have heard of Damon and perhaps the two famous friends of Syracuse: but made their friendship famous. Pythias was unjustly sentenced to death by Dionysius, but he asked as a special favor to be allowed to go at a certain time to be put, death to return a certain time to be put to death.
Dionysius, who was a tyrant and
and trusted nobody, laughed at him ; for he felt quite sure that Pythias would never come back if he once found himself free. But Damon of fered to go to prison instead of Pythias, declar-
ing that if his friend failed to return in time he would die in his place. Dionysius could no understand such confidence in any man's word but agreed to the plan, wondering how it would As the time fixed for the execution drew near quite cheerful was kept on Damon, but he was would cherful, saying that he knew his friend caused the delay he would gladly die to save him. The appointed day arrived, and Damon cheerfully prepared for death, even then not
doubting his friend's truth and honor doubting his friend's truth and honor. He was
on the way to execution when Pythias, who had been delayed by storms, burst through the crowd hearted friends embraced, each pleading to true lowed to die for the other, the excited crowd burst into tears, and even the tyrant Dionysius was conquered. He set them both free, and
asked to be admitted as a third in thair friend ship, declaring that he would gladly give friendwealth to have such a friend. But true friendShip can never be bought, and a man as suspicious and distrustful as Dionysius could never But, although it is a grand and noble thing to

Lettuce is used $\begin{aligned} & \text { its way a perfect } \\ & \text { dish. }\end{aligned}$ soon as it is brought into the house, sprinkle it ice-box. To prepare-cut pail and set in the the leaves and let them lie in the coldest water fifteen minutes; shake dry, looking sharply for insects. If left wet the dressing will run off Cut cooked vegetables in 1eaves the same way potatoes, which can be cut with a cabes, excep A plain French dressing is as follows: Salt spoonful easpoonful; pepper, one-quarter tea(either mall wine the tanspoonfuls; vinegar ful ; add onion juice if desired Stin the spoon ously served thit it thickens. This dressing may be A good recipe for cooked salad dressing that One tablespoonful of ground mustard and follows flour; moisten to a smooth paste with water. Put a pint of vinegar and half a cup of sugar on in the flour and mustard, to which has hot pour two eggs (or the yolks of four) and a lump butter as large as a walnut. Stir this constantwith sweet cream to the proper consistency bither mayonnaise or cooked dressing is approcaule with string beans, tomatoes, Cooked ory bage and mayonnaise with meat or fish. A very
palatable salad is made with shredded cabbage and cold babed beans mixed with the cooked The arrangement of a salad is worthy of thought. Have a pretty dish that looks well With the green frill of leaves on the edge, with the salads gives the girls a chance to display their
artistic
sketching, it is also very satisfactory to her athe
to arrange the left-over vegetables, as pels. heams to arrange the ieft-over vegetables, as peas, heans
and potatoes, in a pyramid of pretty color with and potatoes, in a pyramid of pretty color with
green and blossoming with rose-bud radishes. The radishes can be cut down with a knife to imitate cose leaves and put in ice water, and they win
curl hack in very good imitation of buds. The beauty of tomatoes nestled in pate green lettuce
leaves, crowned with golden mayonnise is leaves, crowned w

ESCALLOPED RHIBARB
Before the season of rhubarb nas passed, try a the Boston Cooking School. Stir one pint, solidly packed, of bread crumbs into one-fourth of a cupful of melted butter. Cut one pound of rhubarb into half-inch pieces. Butter a pudding
dish, sprinkle in a layer of crumbs, add a layer dish, sprinkle in a layer of crumbs, add a layer
of rhubarb, about a dozen raisins (stoned) grating of lemon rind, a little juice, and a generous sprinkling of sugar. Continue the layers until the hread and rhubarb are used, having sugar and the juice of half a large a cupful of and bake in a moderate oven about forty minutes, then remove the cover and brown the top. Serve hot with powdered sugar or with hard


Will you be just " as mad as mad can be ' at me if I go on in this paper with the song re that doleful old tune, "Drudgery on the farm"," Mad or no mad, however, I am going to keep on this roason again-is that very wicked ?-and for subject, and I think every other farm "" in the Personally, I do not know what drudgery on the farm is; 1 have come into much closer touch and am always inter love the farm ton much matter how tired I oughly interested, you know, one cannot feel drudgery.........Yet I am well aware that many many farm-women are so circumstanced as to have is just resolved much to do, so much that scrubbing, washing and sewing of milking and ironing, getting meals and running after cattle from morning till night, month in and month out, no time to read, no leisure in which to lie days : no chance of the ing the heat of the summe ened up a bit, except once in an getting fresh time to have a friend in to tea. This sort thing is really too bad. It turns one into a sort of human machine, and one cannot blame any the drudgery of it all. Nevertheless, the farm life is not to blame for all this, but the circumstances. There are farms upon which drudgery is unknown; on which the
work is done well, and on time rosperity and plenty reign; yet on which the for them; time to read and to visit, and to make ittle trips to the city now and again, and kop
in touch with all the world; time to think In touch with all the world; time to think, and grow cultured, and be happy in. Thank good-
ness, there are such which may serve as ideals for us all. deal life. It is of no use to be cross and this ous about it, and to think that ". there's no ust
of our trying ; we could never have thiners liki of our trying; we could never have things like out in what way, and by just seeking to fitur learn many things. Iittle "handy" things maki such a difference sometimes, and 'mony a mickl, mak' a muckle," as the old Scotch saying is. Of
course, one can't get everything in a conveniont shape all at once, but conveniences soon accumblate; and, really, many of the "handy" things
do not cost much, often nothing but the oullin" of a few cents and a little time.
Now I am sure wh atee, each of us, anxious Now 1 am sure we ate, each of us, anxious 1
know every plan which may help, to give us mor
loisume to shend wn thinge outcide wi the regol
contine of "must-he-dones," And we may leary whlling to tell her plan, of ansthing at all which not take much time handy or heppiul. It will a postal card. 1 am going to extend the time for the recenving of these hints, and 1 do hope to weeks inundated with them during the next few the Nook rhaps, too, there are some readers of certain things have particular difficulty in doing ficulties, it might be that we could find a solution riculties, it might be that we could find a solution
of them from some member of our Ingle Corner I shall be so glad to acknowledge receipt of suggestions; if you do not wish your name published, however, kindly mention the fact when you Again, I repeat that there
tion for prizes about this will be no competition on hand at present is the only competi"Why I am proud to be a farmer," upon which subject essays are arriving, and will continue to
arrive, I trust, until the fith Lately I have been reading, as often
sible, from the Discourses of Epictetus as posknow all about Epictetus; wise old pagan that he was? Some of you, perhaps, do not. For you, then, he was a philosopher of the time of Nero, who began life as a slave in the City of Rome; a
poor, lame slave, whose leg had been broken, it is said, by the tortures of his master, Epaphroditus. However that may be, Epaphroditus seems to have understood the remarkable intelligence of Epictetus, for he permitted him to atRufus, who had founded a school in pome in life, Epictetus obtained his freedom and Later began to teach in Rome. He wrote nothing hut his words were faithfully copied by a pupil, Arrian, and thus the greater part of his lectures
have been handed down to us Opening the book a us.
came upon these words : "He is free who lives as he wishes to live : who is neither subject to compulsion, nor to hindrance, nor to force; whose sires attain their purpose, and who does not dainto that which he would avoid." The passage seemed to suit so exactly our idea of the ideal rural life, that I give it to you without comment. As you pick out the meaning, bit by bit, to you as it did to me. tetus and his high, calm philosophy, to our little housekeeping affairs. "No, I must take that back does is no coming "down" about it. Of what living; of the attitude we should of our daily those things we have to do? Nothing that con cerns us so closely as this can be low or trivial Did it ever strike you that one beauty of our may be going on with it with is such that we thinking about all sorts of lofty and inderest and things at the same time? It is quite possible (o pare potatoes, or to milk cows well, and con over the sayings of an Emerson too; to sweep floors properly, and be keeping time to the broom
all the while, with the rythmic Tennyson, or a Wordsworth, or a Scot ot one must have a little time in which to become familiar with these things first. I am not so sure that this species of freedom exists in man or bookkeeping or a hundred othe is thpewriting mind must not wander with the same lata And so, in this, is there not, more than on the Carm-unspeakably more-drudgery ?
There, I'm back to it again
There, I'm back to it again. I knew I'd get var on drudgery. Send those postal cards in as quickly as possible, and let us hope that wery nember of the Nook will find something helpiul

## How Does it Seem to You.

'I seems to me I'd like to go
Where bells don't ring, nor whistles bow.
خor clocks don't strike. nor gongs don't sound and Corks don't strike, nor pongs don't sound
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$Conerimes it sems to me I mustant but out where the sky is blu

Signs of the Times.
Which orpulent grocers present to our view At five cents a pound, plus a penny for freight, oh
To bring it to us from the land where it grew The temp, ing potato
The costly potato of delicate hue.
How sweet to our taste is the lambhin's hind quarter
When roasted and served with
We're apt to consume really nith a dressing of mint
Then imagine that we fossess wealth without stint
The juicy hind quarter,
Alluring hind quarter all davored with mint.
How soft and s.ductive the first balmy breezes e discard winter flannels and coats-t hen it freene

The early spring breezes
That sigh throuph the trees?
The treacherous bree;es that make our eyes leak
ow sweet to our ear is the first bluebird's singing
That ioyfully trembles upon the calm air ;
las t that a blizzard shotld send him a-winging
To fool other folls in liter
The premature bluebird
The frostbitten bluebird
Spring is her

## The Boy Next. Door.

In his war paint, all alert of some borderland expert ! Hanging on to trees and fences, In his efforts to explore :
Startling to a body's senses Was the little boy next do
a window pane was shattered (Or a missile cleaved the air,
If the street's repose was st attered 1) the street's repose was stattered Little need for explanation All had happened oft befor Mite of terror and vexation - 4 Knets and dogs, by intuition Jaunty was the hat's position On his roguish, curly head : As, with bearing indepenclent. He would bound the crossing o
With good nature all resplendent Was the little boy next door :

Brave, chivalric and respectful
To the old who came his way. With a sympathy regretful How the wild and tame were day ; In his nature's bounteous store ; By that little boy next door When, at sunset, homeward walking Tarked their group in whigpers talling Leaving all their romping joys; Saw the snow-white ribbon streamin Tom the house I stopped belore-ar-lrops on my cheeks were gleaming lifeorge Cooper, in the Independent

## Ned's Mistake.

## thel sits on a nice cushioned seat

"ith: : smile confon the performers
it atter a whe he grows restles.

## "Hhsin are preserved seats, grandp

## To Our Lady Readers

couts. When we bought these we had
yoll all in :mind, and we have what you all wantWhat ant hand bags such as we offer you ar
wion easier than by securing new sulnise thic The "Farmer's Advocat

THE FARMER'S ADVOCA'TE.

## Where to Go for a Summer Holiday. An Insane Lawyer's Pemarkato wir.

 III our last number we presented to our . The followirg with the right to and the blossoms of the woon in our present issue we show scenes in the k...
 not so widely muner holif hat less interesting, papers. These lakes are situated in
the counties of Victoria arrd Peterborough, Ont.. and these who have enjoyed the delight lakes, with their momtain an forest scenery, grassy and vine clad shores, tell us that the Tre almost a reproduction of th Troum Lakefield, a prolly viltes irom Lakefield, a nrelty village
near Peterborough, on the $G$ a. 12... to Coboconk: Boating, hunting and fishim. an idea of the natural beanty of the scenery from the fact that
Stony Lake alone contains soal 800 islands within an area twenty square miles.
Excellent and very moderate accommodation is to be had in along the route or if caushile is preferred, no place could bie found more adapted for th h healthful recreation.

The day returns and brings u cerns and duties. Help us to play the man, help us to perform them
with laughter and kind faces, let with laughter and kind faces.
 to our resting beds weary and this day, bring us hoored, and grant we in the end the gift of sleep Amen.-Robert Louis Stevenson.

## Of Interest to Ladies

Fashon decrees the use of the wrist bag, and it is just here we wish to assist you with our premum offers. To our lady friends who secure offer wrist or hand bags of superior are able to ofrer wrist or hand bags of superior material and
most beautiful design, that only need to be seen to be appreciated. Carefully study our premium tare 617, and secure a bag before visiting the

among ter igiands of stony labe-kawartha labes district
.. 'to The The cimbitren. long, long days to the children the a thousand ways, alli the night, and
the moon and the train of the milky way, to wonder at, but subject. nevertheless, to the rights herein " Item: I devise to boys jointly all the useful, idle fields and commons, where ball may be played, all swim. all showclat where one may may coast, and all streams ond ponds where one may fish, or where
when crime skate, to have and to hold the same for the period of their boyhood, and
all meadows, with soms and butterflies clover blos woods, with their appurtenances, the squirrels and birds, and echoes and strange noises, and all distant gether with the be visited, tofound. And 1 give to said boy each his own place at the firesile at night, with all pictures that may be ee $n$ in the burning wood, to enjoy out any encumbrance or care. ithaginary world, with whatever they nay need, as the stars of the sky, of red roses by the wall, the bloom of music, and aught sweet strains desire to figure to each other may this my last will and testament, in make and publish lastinguess and beauty of their love. may be, to distribute my interest in order, as justly as may be, to dis
succeeding ,men
queath all boisterous, insyiring sports of rivalry, and
I give to them the disdain of and recognized in the sheep-bound volumes as law confidence in their own strength. Though they int and property, being inconsiderable and of no account, my rude, I leave to them the power to make lasting make no disposal of in this my will. My right, I friendships and of possessing companions, and to them live, being but a life estate is and exclusively I give all merry songs and brave choruses ${ }^{\text {2 }}$ but, these things excepted, all else in the wnrld I now "Item : And to those who are no longer chlldren proceed to devise and bequeath. or youths or lovers I leave memory, and I bequeath to trust for their children good fathers and mothers, in them the volumes of the poems of Burns and Shakesand encouragement, and all quaint pet names and en- that they may live the old days over again. freely and dearments, and 1 charge said parents to use them just- fully, without tithe or diminution.
ty, but generously, as needs of their children shall requite.
ly, but generously, as needs of their children shall requite. "Item: To our loved ones with snowy crowns,


Perry chute among the flands of the kawartha lakes - grand trunk railmay system


Dirty woodwork or any other part of the house that requires cleaning can best be cleaned by using .

## SUNLIGHTT SOAP

It will remove every particle of dirt and make the whole house bright and cheery. Absolutely pure, and every bar possesses remarkable cleansing power.

ASK FOR THE OCTAGON BAR.
Sunlight Soap washes the clothes white and won't injure the hands. LEVER BROTHERS LIMITED, TORONTO.

TRADE TOPICS HORSF BOOK FREE.-Dr. B. J. Kell
dall Co.s bonk, "A tratise on th horse and his diseases," is written from
a scientific standpoint/ yet in practical form, so that anyone can apply its
teachings. The horse and his handling are described, and there is hardly a trouble peculiar to, the horse which is
not discussed, symiptoms and cause suggested and treatment suggested. It
published by the proprietors of Kendall Spavin Cure, that world-known remedy for horseflesh ills, and contains the gist
of their many years' experience. They send this practical book free of charge B. J. Kendall Co., Enosburg Falls, Vt., for a cony, mentioning the "Farmer's

CANADA PAINT COMPANY EXTEND-ING.-The Canada Paint Company has purchased a tract of land on Hunter
street, bounded by Chatham street and street, bounded by Chatham street and
Notre Dame lane, which has the merit of being central and close to their presMontieal. it may not be generally known that this Company is by far the largest paint and varideh manufacturing company in the Dominion of Canada, and
the only company in 'Canada who ship large quantities of painting material to the United States, in spite of the high tariff which our American friends have
against us. Shipments are also made against us. Shipments are also made
to Great Britain and to the Australian colonies. For some time it has been company to take care of all the business offercd, and now the directors feel warranted in doubling the color-making
capacity and enlarging in all depart ments. They employ their own en-
gineers, carenters the new works will be erected by their
permanent staff, and will be the most complete yet devised upon this con-
tinent.

lame and aching IN BACK AND LEES In Quick Time Mr. Oughtred and His Neighbor Were Cured lo

## Dr. Chase's

 Kidney-Liver Pills. gish, torpid liver are derangements whic usually accompany one another. Becaus the kidneys, liver and bowels, Dr Chase' Kidney-Liver Pills are the most prompt and thoroughly effective treatment for these ailments that money will buy This statement is fully borne out by daily recelved at these offfices. Here is Mr. J. W. Oughtred, farmer, Marbleton Wolfe Co., Que., writes: "D Dr. Chase' Kidney-1. I was lase a the recom back, legs and arms, and had a cont m dull pain in my bowels. Every littl thing I did required great effort, I wa, so sore and lame. 1 took lots of other pills, but they only made me sick. Whe haying time came felt that I could possibly do it. Liver Pills came to my Chase's Kidneyme so much good that I worked at th haying and did lots of other hard work with ease. I sent and got five boxes, and gave away one box to a neighborwho was suffering so badly ache that sufering so badly with back afterwards told me that they were the best pills he ever used, and is now real well. I found that by taking two
week they kept me feeling well. bills give me sick headache, but Dr
Chase's kidney-Liver fills cure sick hear ache and suit me betier than any others. Dr. Chase's Kidney-Liver Pills, one pil a dose, 25 cents a hov. at ali dealer
Edmanson, Bates \& Co., Toronto To protect you against imitations, the Poltrait and signature of Dr. A. W
Chase, the famous recipe-bonk author
are on eyery box of his
sore 2 SHORTHORN BULLS
 J. F. BBLL, Amber, Ont,

BERKSHIRES AND YORKBHIRES. Fory Sale -Boars fit for service, sows in farrow an

ready to breed, and younger stock, all of the ideal | $\begin{array}{l}\text { bacon type. Paira not thin. JOHN'BOYES. Jr. } \\ \text { Rosebank Farm. om } \\ \text { Churchill, Ont }\end{array}$ |
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H. SMITH, EXETER, ONT. SCOTCH SHORTHORNS Bred for utility. More fat show champion.
produced than in any other herd. Some choice farm joins Exeter, on G. T. R. AYRSHIRE BULLS FOR. SALE.
 - D. Leitch, Cornwall, Ont. SHROPSHIRE shearling rams, shearling ewes, Allsa Craig, Ont SHROPSHIRES-A flock of 110 head, fine, healthy


## W A N T E D

o fit Shorthorns for show and sale
hest of references required. Apply ating wages expected, to Apply,

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# fULY 1, 1903 <br> IHE FARMER'S ADVOCATE. <br> <br> \section*{617 <br> <br> \section*{617 <br> <br> VALUABLE PREMIUMS. 

 <br> <br> VALUABLE PREMIUMS.}

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Mady's Handl = Dag.


SIZE, $4 \frac{1}{2} \times 7 \frac{1}{2}$ inches.
A magnificent Hand-bag, leather-lined, leather handle, nickel-plated clasp, for 3 new subscribers. Cash price, $\$ 1.50$.



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Is a means of great entertainment and instruction in the home and out of doors. To meet the wishes of many subscribers, we have arranged with a first-class firm for a supply of those in struments ; which we now offer :

Tripod Microscope, with strong magnifying lens, useful for examining weed and other seeds, insects and other small objects, for obtaining one (1) new subscriber to the Farmerr's Advocate.

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SIZAS, $31 \times 6$ INCHES This handsome Wrist-bag, leather-lined, nickel-plated clasp and chain,
2 new subscribers. (ash price, $\$ 1.00$.

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The McGill Monarch Tread Powers are the best general farm powers on parth, and the only Powers made olled Steel She Steel Track, Cold Solid Hardwood Lags, with brake entirely independent of Band Wheel. A patent Governor or Speed Regulat tor with each machine.
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## Agricultural College.

 (3) In A griculture or Horticultare- Sept. 14,' 0 .
${ }^{\text {(4) }}$ (4) Four Years' Course-B. 8. A. Degree-Sept. 14, '03.
(5) Three Weellis' Creamery Course- Deo. 1at' 0 ,
(6) Three Wonths' Dairy Course-Jan, 4,'04.'

LADIES ADMITTED to DOMEStIC SCIENCE AND DAIRY COURSES. (i) Send for General or Special Circulars.

Guelph, July, 1903. -om JAMES MILLS, M.A., PRESIDENT.

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|  | HEATING |

SEPT. !lyh to 19th, The Stock Breeders' Greatest Show.
a grand prize list this year.

Exposition will surpass any previously held

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W. HUTCHISON, E. McMAHON,

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This furnace gives excellent satisfac-
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COAL or WOOID.
A special wood grate is supplied with-
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## sumern Large English Yorkshires



Our winnings at the large show, for 1901, are as follows: At Toronts eve y possible first prize an
five seocond, two silver medals, and ifrtit for




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 When They See ItWhich is the reason there is such
a large and increasing demand

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They have many points of supesufficient to make the fowing are

The Moșt Desirable to Own:
CLEAN SKIMMING-SAFETY-

All g-ars entirely enclosed in
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Most thoroughly and substan.
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Read the testimony of one. We have
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VERMONT FARM MACHINE CO,
BELLOWS FALLS,
VERMONT.


GOSSIP.
Labori (10791), the fine Clydesdale A. B. Matthews, Newton-Stewart, has
A. Mathe shat again been hired by the Scottish Central Horse Breeding Society for 1904. It is ar cry to that date, but tume these
days must be taken by the forelock Labori was hired before this date last year to travel the same district this year, and is now on his rounds. He was bred by Messrs. Robertson, Clendrie, winner, standing close up to the winners at the Glasgow Show for three seasons, and in 1901 was the junior premium horse of the Glasgow Agricultural Soci-

The palr of trotting-bred colts, Ethel and Fanny, illustrated on another page
in this issue, with their dam, Favorite are the property of ex-Warden A. Wilson, Favorite is by Bashia 16750 , and is considered one of the fastest trotters eve bred in Nova Scotia. She distanced a
field of seven from the Maritime $\underset{\text { leld of seven }}{\text { from the }}$ Maritime Charlottetown, P. E. I., besides carrying off the honors several times in
the free-for-all. The sire of these colts the free-for-all. The sire of these colts is Fairoaks, imported from Ohio by Mr.
Brownell, North Port. Fairoaks 18571 . record 2.26, is by Adrian Wilkes 6560 sire of nineteen with records of $2.06 \frac{1}{\frac{1}{2}}$ to
2.20 . Mr. George D. Fletcher, Binkham, Ont, proprietor of the Green Grove herd of vertisement, writes : ""The imporfed Orange Blossom cow, Blossom 2nd, which sold for the highets price paid for a fe-
male at Messrs. John \& George Isaac's sale on May 13th, which I had the good breeder, and is now raisIng a very choice bull calf of a very fleshy, smooth 'type,
from Rustic Chief (imp.). My herd is now in a very healthy condition, and the
young stock by Spicy Robin are young stock by Spicy Robin are a very
growthy lot. The bulk of my this year's growthy lot. The bulk of my this year's
calves are buills, among which are some
very choice ones,"


The Livingsion Linseed Oil Co, Lto, BADHIN, OINTARIO,
Old Process Linseed Oil Cake and Meal, also Ground Flax Seed.
0 Do Not Buy an old-Style, Out-of. Date Hay Carrier When You Can Buy the Latest Improved


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15 Different Styles to Choose From

Louden Machinery Co. Guelph Ont.

Rosebank Stock Farm, J. Boyes, Jr
proprietor, Berkshire and Inppoved Yorkshire hog and Barred Rocks, advertised in this
paper, is situated in the vill paper, is situated in the village of
Churchill. Simcoe Co., Ont., two and Churchill, Simcoe Co., Ont., two and a
half miles trom Cofroy station, Northern Division of (द, T, 12. The Berkshire herd at present is headed by York Lodge Big
Fellow and Willow (11134), two hogs of extra quality ath breeding. Principal sows are Princess (6276). litter sister to Major Lee, win
ner of second American; Model Girl (7988), at Pansow and excellent breedler, (7itter a strong Model Princess 6905, winner of firster to
Pan-American winner of third Snizelgrove Winnie 8889 months, 1901; Nell 7010, a choice sow and winner of many prizes; Bright Lady
8270 , a very choice breeding sow with three other sows bred from soov, with
Berkshincess herd Berkshire herd numbers forty head, with
four choice sows safe in pir herd headed by Oak Lodge Cambridge 30th 9267 . Breeding sows: Pleasant
Maid 6835, Maid 6835, a choice sow and extra
breeder: Oak (7262), a show sow and the ideal type . H. C. $7 \in 0$ ( 7945 ), a sow of the model
type, now suckling ten choice Oak Lodge Cambridge 30 th : Cotgran Pearl 11650, an ideal young sow which will make a mark in the show-ring in the
near future. Yorkshire herd numbers forty head of different ages.
ONTARIo wind Engine and Pump in the history of our company were we so busy as at present. The Canadian Canadian public that ge faver with the meet the requirements of our customers The Canadian public has tested this machme for years, and the immense
crease Our firm took business is the verdict mill contest in London, England, and it is only justice to us to remove any im-
pression Canadian Airmotor was outcone. The fact that the prize medal was given to
this firm at the Parls Exposition, 1900,

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BUCHANAN'S PITCHING MACHINE For unloading hay and al kider inE


Unloads on either side of harr floor without
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Here you have a water trough, or tank, made like the hog trough, only much
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A COMPAOT SEPARATOR
ands low and saves much heavy lifting. A SOLIDLY-BUILT SEPARATOR.
Runs absolutely true and entirely free from vibration
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NO SEPARATOR CAN BE A SUCCESS THAT DOES NOT EMBODY THESE FEATURES
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and Hackney stallions, Ayr
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shire cattle, and poultry, have
for sale 5 Clyde stallions, sired and Royal Carrick, I Percheron, and I Hzck ney, winners. Aysshires of both sexes. and
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and other large shows than

Stallions and mares all ages. home-bred and
imported, always for sale. Uver 50 to choose
from.
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 Oi-
 YMAN SONS \& Co F., Spring ilield, Mass

Thorncliffe
Stock Farm
ROBERT DAVIES Clydesdales, Hackneys, Jersey and Ayrshire Cattle $\begin{gathered}\text { Correspondence solicited. Visitors } \\ \text { welcome at } \\ \text { THORNCLIFFE }\end{gathered}$ GLYDESDALE MARES

Registered mares, from three years old a
upwards, for mat.
NELSON WAGG. Claremont tation,
Stuutrviut tulution,'


THE FARMER'S A DVOCATE。
Founden 186,


## Itrunars poleER STUU falin



 cattle and Oxford Down sheep.
The following is from a letter received
by us from Mr. Jotm Macey, Jr., of
Gilenburn Stock Fan,


Clydesdale
Shire and Hackney Stallions, and Spanish Jacks

$\qquad$
 far those to hhom we have shipped, tha
we have heard from, express themselve as bring well pleased with the stock sent.
We are also having gooll relorts of the




 H_ H. COLISTER, IMANAGER AND SALESMAN
LAFAYETTE
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| We are the larpest 1 Impor |
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| ere and |
| ereeders of of ole |



 La Fayette, Ind, ,U.S. A
Terms eas.
guarant eeed.
Alex. Galbraith \& Son
 New inportation of prieewinuerv of the varions breeds will arrive in August.
Buyhing orders executect

JULY 1, 1903
THE FARMER'S ADVOCATE


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ROBERT BEITH,
BOWmanville, ont:,
Clydesdale Hackney Horses
Is offering for sale a number
of chicecly-bred Cly desdales
ond and Hackney stallions, also
an number of Hackney mares.
The Clydesdales are sired by
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ROSEDAエ円STOCK FARM, IMPORTED SHIRE and CLYDESDALEE HORSES.




JOHN BRIGHT, MYRTLE, ONTARIO, Clydesdales and Shorthorns,


Is now offering for sale 8 stallions, sired by
such horses as Prince Patrick (ind such horses as Prince Patrick (imp.), Erskine's Pride (imp.), Sir Erskine (imp.), Royal Laur-
ence (imp.). Also a number of mares and fillies, ence (imp.). Also a number of mares and fillies.
Shorthorns of all ages, of such families as Sirthorns of all ages, of such families as
Miss Ramsden, Clementina, Strawberry, Crimson Flower, Village Girl, Stamford, Rachel,
etc. Myrtle Station, G. T. R. and C. P. R. Farm connected by long-distance telephone.

## STALLIONS and MARES

 IMPORTED LAST SEPTEMBER.THOROUGHLY ACCLIMATED. thoroughly acclimated.
The up todato drafter, big and medium
weichti, dark colora, chont
 yon stable. Honest valluc for honest money. BARON DE CHAMPLOUIS, Importer,


CLYMESDALES

A. specially.

Another important importation of stallions and mares may be looked for in August. Intending purchasers will do well to see our horses, as we import the best. Quality, with sufflcient size, is our motto.


$\left\lvert\, \begin{gathered}\text { An OSSIP. } \\ \text { Arecon paching firm has contracted } \\ \text { with the Mindial Agent at Fort Duchesne, }\end{gathered}\right.$
 from these porniest will be sent to $J$ apan
for army uso

The Cregon Experiment Station has
conducter investimations to dotermine whether the bacteria cominnonly found in
pools of stagnant pools of stagnant water can gain access
to the milk given by a cow that drinks it. The results were that these hacteria were not found in 'either the milk, urine
or feces of cown en that or which of pure cultures had hand been added
to white Even when pure cultures of typhoid
bacullus were applied to the tent allowed to remain for twelle hours, then rea moved and the teat sisinfe turl, there was
no trace of the typhoid in the cow's This last experiment was renerated for ve davs, with the same result.

TRADE TOPICS does not intend to buy anything if one farm machinery line, it will do him good
to take a look over the catalogue issued by the special Canadian facturing Company. Mowers, corn Man vesters and twine are the prominen
artacles listed. The catalogue is issuel
The be sent on the Canadian trade, and wil (1)ivision of the International McCormich
-
representatives recently called of our The McLachlan Gasolind Engine Co. and supplies. Engines ranging from two to thirty horse-power are manufactured in
these works. ticularly urawn to the twenty-horse ern thresher businended chiefly for west smooth-running machine, and fills a long

DOMINION STATISTICS.-The statis tical branch of the Dominion Department
of Agriculture, in charge of Mr. Geo the early, is to be congratulated upo "Statistical Yearbook" and the gen tainly one of the most complete eve nalists and oother students of the jour try's condition and growth.

WINNIIEG EXHIBITION.-The first o the Canadian exlifhitions for 1903 will be
orened on July 20th at Winnipeg, and will last one week. Fifty thousand
dollars is allotted for tions. The purses for speeding are parentries from the east. The West has enjoyed the distinction of being the most
talked-of place in the world during the travel accompanying the Winnipeg Wx-
hibition furnishes portunity to visit this new excellent opr-
country. Thowing
Weut intending to visit the



Christian Endeavor, Denver. For the International Convention at
Denver, July 9th to 13th, the official route selected by the transportation
managers for Ontario and Quebec is via the Chicago and North-Western and Union Pacific Railways. Special train of
tourist sleeping cars through to Tickets on sale July 6th 7 th Denver. Keturn limit, August 31st, 1903. Very
low rates from all stations in Canada Write for official Christian Endeavor folder, rater and full information to B.
H. Bennett, 2 East King St., Toronto.


USED FOURTEEN YEARS WITH GOOD RESULTS.
211 E, 164 St., New Tork, Sept. 8, 1902 Gentiemen:-1 have used your Spavin Cure on Mlyays iven me good rosults in teers particular oustal If you have any later cilition in Respectrully yours, $\quad$ B. F.FRISBIE


 dr. b. J. kendall co., enosburg falls, vt.
Curb, Splint, contracted cord. thrush.grease
heel and all forms of lameness Tuttle's Elixir Dor Sirlit wa
 Giuven in ternally it is sure cure for Collo 11 letemper,




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J. A. JOHNBTON \& CO., DRUQaIste


BAWDEN \& McDONELL


Exeter, Ont
Clydesdale, Shire and HackneyHorses England, Scotland,
ng the best blood



Gossip.
 Mulae. as noted in our May' 15 th issue. We are add ised by Robt. Hunter -
Sons that the whole of the Hute portation of Ayshnires recently landed
them will be attached to their herd Maxville, Ont. In the account of importation in our last issue the infer
ence might be drawn that thes ence might be drawn that these cath
were for the I achinine Rapids farm, bu such is not the case.

In this issue the advertissment of the special attent ion is directed to the young stock, which are reported in good order.
The Ayrshire stock bul
, The Ayrshire stock bull, Isaleigh Prince
has proved himself a good stocllenen and also won several prizes !ast season He is now offered for sale, which is a
frist-class opportunity to get a fine rew sentative Ayrshire of the Silver King
stack E. B. Hinman \& Sons, of Gratton, their advertisement of Jersey stock, say We heve sold the two young bulls was shipped to Mr Mar Hary tising. One Loval, Ont. The other went to Picton, ling heifer. She promses to make a good one, and the buyer was lucky in bull, Dentonia's Achievement 6346 stock developing splendidly, and will he heold from later on.

In making a change in their ad., Fitz We are offering four young British tatesman (inp.) bulls for sale. They are grand handlers, and should devele, into first-class sires. We are also offering some calves, both male and female, sired imp. Diamond Jubilee $=28861=$ good form, being exceptionally well sprung in the ribs, good in the hind
quarters, and are grand handlers, and "ill undoubtedly develop into good ani-

## - shorthorn sales

 continue active, but no sensational prices are realized; F. R. Strangland, ofMarathon, la.. sold thirty-one females on The 2nd for an average of $\$ 257.90$. realized the top price of the Charles The lowest price was $\$ 150$. The sale
day was considered $n$ spltential bargain time (1) the following day, at the sate
of N. A. Iind, Sweet Bouquat (imp), with hrought stimy imported colden Crest Marshall, Michigall, This sale included a moongy number of imported cows with averaze of \$66.35. Five hundred dollare ricalthred cow, (irand lase buchess o Warmat, hrought 8515 Four inuls go dition of the raitroulse on aerome of


TRADE TOPICS.
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the kindergarten stud farm, gurlph
JAM ES HURLEY, Proprietor.


HE SUNNYSIDE HEREFORDS

B. Richards, Bidefocord, P, E. ISTand,




A.J.C. SIIAW\& \& NSS. Thamesville, Ont.

High Park Stock Farm Galloway Cattle.


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W A IT Iㅗ플
AFirst-class fruit Trees
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GUERNSEY BULL
 JAMES ARMSTRONG, ELM PARK STOCK FARM ABERDEEN-ANGUS CATTLE SUFFOLK SHEEP
We have for sule the s.t. 2nd and 3red prive

JAS, BOWMAN, - GUELPH, ONT
OEO. STENAR, HOWICK, Quebec
Clydestale Horses,
ys any ado

Shorthorns, Clydesdales, Yorkshires

 Beechgrove Shorthorns, Preanale offor in ing
 R and Arthy stations
$R_{\text {Sylvan P. }}^{\text {\& }}$. . NICHOLSON SHORTHORNS
 Iome bered herd omposed. of Noy count.
 Queenston Heights Shorthorns
 HUDSON USHER, - QUEENSTON, ONT For Sale: :




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THE FROST \& WOOD No. 3 Dnen-Rear Binder
is built on the sound basis of GOOD QUALITY of
material and workmanship, and years of useful services.

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T. DOUGLAS \& SONS,
${ }^{\text {Bumaxpertss}}$ Shorthorns and Clydesdales
 all times. Also one (imp.) stallion and two brood
om
mares. Herd comprise Augusta, Polyanthus, 'Crimson
Flowers, Min as, Strawberry and LLavinias. For sale
both sexes, the set wo

Scotch-Topped Shorthorns -(Imp.) Captain May


Elmira P. o. and Station, on G. T.
SHORTHORNS

SPRUCE HEDGE SHORTHORNS
OB N McKENZ youngsters that are sure to win.

Choice Shorthorns and Shropshire Sheep.


Shorthorns and Leicesters





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 CHIS, RANKIN, WYEBRIDGE, ONT, SHORTHORN CATTLE and
OXFORD DOWN SHEEP.



Blood
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When an has a rough coat and a tight hide, anyone knows that his blood is out of order. To keep an animal como-
mically he must be in good health. DICK'S BLOOD PURIFIER is a necessity where the best results
from feeding would be obtain It tones up the system, rids the stomach of bots, worms and other away.
Nothing like Dick's powder for 50 cents a pe.
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For making soap, softening water, sinks. clog old paint, disinfecting many, closets, drains and for equal 20 pounds SAL SODA. SOLD EVERYWHERE.
E.W. GILLETT COMPANY

Hilliuss Shorthorns
CLYDESDALE HORSES Imp. Spicy Court 36117,3 years old, Four bulls, 12 to
20 months Cows and heifers.
FAB. MoARTTHUR. W. R. Bowman, Mt. Forest,
yearling durham bull for an excellent dairy strain (weight 1.200 lbs.)
for and 0.00 . Two Aberdeen Angus bull calve S.

## S. DYMENT,

 Breeder of Scotch Shorthorns MERCERS SHORTHORNS Poinprise Missies, Stanford, Floras, Clarets,Princess. Red Hoses, Young sterling, Fath.
ions and Matehlestes. or sale. There are severait choice heifers. 17
heifer calves, 3 bulls fit for service and 4 bull Thos, Mercer, Markdale P. O. and Station. Shorthorns, Cotswolds, Berkshires


TROUT CREEK SHORTHORNS GIRIEEN GROVE SHORTHORNS


JAS. SMITH,
 Greangrove Shorthofns Number 35 head
 Omames or ain areag P. O., Marikdale Station.
Goring



OAK LANE STOCK FARM Shorthorns, Cotswolds, Yorkshires and Barred Rock Fowls,

 GOODFELLOW BROS., mačintle.

W. G, PETTIT \& Solis FREEMAN, ONT., CAN
Scotch Shorithorns and SHROPSHIRE SHEEP, 2 Imported balls comilng 2 years old.
4 bull calves, from 8 to 18 mont Coull calves, from 8 to 13 mon the old
 Ilap, and home-bred cows and heifers of
allageen
Our entire fllock of shropshire sheep, 75
head. JAS. GIBB, SUNHYSIDE STOCK FARM,
 SHOREIHORNE。


## SHORTHORNS

$\mathrm{W}^{\mathrm{E}}$ ARE OFFERING FOR SALE a grand lot of young imported Sootch cows and heifers Heral Numbers 150 Head.

Send for New Catalogue.
visitors weloome. and oorrespondence promptly attended to.
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Also have a chotce lot of Oxford Down
Bheep, either sex, at re ssonabie pricess. om Cargill, Ontario, Canada.
PINE GROVE SHOTTHORNS AND SHROPSHRES,
Our herd comprises over 150 females, including our last importation of 30 head, all of the
most esteremed strains of Sishropshires, we offer a few choice rams, also high-class ewes bred
to first-class rams. Address W. C. EDWARDS \& CO

Rockland,
Ontario

## SUPBRIOR

materkial, desigin, workmanshif WAGONS PETROLIA MILNER WAGON CO LIMIED
PETROL/A ALETH
cossip.
At the sale on the 23rd of June, of Mr. John Grant, Advie Mains, Scotland, an average of $£ 46$ 18s. was realized, the or 150 guineas, the top price of the sale, and the yearling heifer, Erinna o Advie, for 120 guineas.

That Hackney-bred ponies of a superio qualty sell high in England is evidenced y the figures recorded at an auctio sale in Birmfngham last month, at which
25 head made the splendid average of 25 head made the splendid average of
$£ 116 \mathrm{l} 7 \mathrm{~s}$. 8d., or $\$ 5 \varepsilon 5$, the six-year-old mare, Lady Horace, standing 13 hands nch, selling for 450 guineas, or $\$ 2,362$, and others up to 250 guineas.

At the annual sale of harness horse rom the Brook field Stud of Mr. Burdett 8 horses were sold for an average 140 . The highest price, 470 guineas,
$\$ 2,467$, was paid for a pair of five year-old browns, 16 hands inch, one of
which was a Hackney-Coacher, and the Which was a Hackney-Coacher, and the
other a pure Hackney. Another pair ive-year-old geldings, 15 hands $2 \frac{1}{2}$ inches
brought 400 guineas. At the May race sales at York, May 20th, single harness horses sold up to 115 guineas d 135 guineas.

Or the 0 17th, Mr. Jas. Dalgety saile signment of Clydesdales and Hackneys hat includes some of the best horses
hat were ever selected for Conade Several of the number have already been some that are hired out on the routes whis season will be included in the ship
ment to this side. ment the this side. Dalgety Rros. are in
a particularly advantageous position for importing good horses. Having a stock
farm in Scotland, they are able to collect some of the best specimens that are onfered for sale, and can keep them until
a full consignment has been secured. The connection $\ln$ Scotland also enables then
to get a thorouzh knowledge of all the shows over there. This summer's ship
 gety's announcencm of the indivifuals
 Farmer has the following : ©Mr. Jame Boden suiled on Saturday last by the
Donaldson liner, Kastalian, with a choice shipment of Scots stock. He had 17
cattle on bonrod sewern clooice proulty. With the excention of
two Shorthorns, the pige nand the poultry, all tho stork was for Mr. Robert Rellevue, Quebec. One Shorthorn. Tri-
Bell
Bmvir. umvir, was brect nt Jackston, and was
rurchassed from Mr. W. T. Malcolm. Nun Morre. For Mr. Clow, Whitechurch, Rruce
$\mathrm{Co}_{\mathrm{o}}$, Ont. The pigs were hought from

 Rev. Mr. Camphent. of Craikie Manss Our shores." In another maner it snym
OMr. Willam Grtove. Kirklamuls
"Mr. R. best breeding herds of Avrshires, in the
 country, This quey, which is got he a
Tower bull. out of one of the hest cows
in Kirklinnal herd has shown. nudd thie was at the oren slow ensilv carried of the first trive , in when Hunter's ovition, thiss st one of the !.


Shorthorns, Berkshires and Leicesters.
 ISREL GROFF. ALMA, ONTARIO ARTHUR JOHNSTON,

## GREENWOOD, ONTARIO,

Offers for sale at times' prices, 6 young and by imp. sires. 6 YOUNG Bullis, of purest Scotch breeding. 10 Yearling and 8 two-vear-olid Pickering Station, G. T. T. R.
Claremont Station, C. P. .

## SHORTHORN BULLS

First-class
Scotch Breeding.
H. SMCTH, Bxeter。
-

 dark red, also yearling and two-year-old heiferg
mp. Royal Pring mp. Royal Prince heads the herd idUTTON, om MAPLE LODGE STOGK FARM SHORTHORNS.-First-prize milking straing, best
Sootch breeding. Young bulls and heiters for LEITCESTERS,-A grand lot of ewee, bed to our
imported rams, and a few choioe rams now for
gale

J. \& W. B. WATT Shorthorns,

Clydesdales and Berkshires
 Imported and home-bred cows and heifers for sale. Our herd at Toronto won three firsta, a second and
 PENNABANK STOCK FARM


JULY 1, 1903
GOSSIP.
Mr. Henry Tudding's annual sale
Shorthorn cattle and IJincoln sheep Riby Grove, Lincolnshire, will be held
July 2nd, and not on July 3rd previously announced.
glasgow american salfes Messss. Macdonald, Fraser \& Co
(Ltid.) weekly reports comprised three shipments since last week.
Two of these came Two of these came from Chicago and one
from London, Ontario. The consigned from J. \& J, Whatorner were Machattie, the Canadians coming from Messrs. Dalugety Bros., the whole forming a choice selection of high-class matching and Brazilian horses, from 15.3 to 16.1 tew vanners and heavy cart years old, a a choice lot of horses drew a goodly
turnout of buyers. fairly good deays, and for all classes a quotations. demand was got at the there is not much mpers, however, state and Canada. (rates current in the States $\$ 300$ to $\$ 475$, venners from $\$ 235$ to
$\$ 295$, work horses from $\$ 275$ to $\$ 340$. clydesdales in new brunswick. In the report on egrtelture for
the Province of New Brunswick for 1902, issued
sioner, Fredericton. P. Farris, Commisof three imported Clydesdale stallions which have been introduced into the the breed. The ursose of improving committee were Copyright selected by a cellor (10327), and Raron4), Chan(10681). These were bought by the Provinciar Government at the following prices: $\quad$ Copyright, $\$ 1,500$; Baron
Frederic, $\$ 900$ : Trederic., 8900 ; , and Chancellor, $\$ 1,300$.
Baron Frederic is Mr. R. Frederick, Drumfower, Scotland and imported in 1900 by Mr. IR. Ness, of Howick, Quebec. He is got by
Baron's Pride.
Copyright is of the same age, stands 16 hands and weighs 1,800 bs. He was also imported by Mr. Ness of Barcheskee, Scotland. Andrew Mitchell,
Ite is also by Baron's Pride, and out of the Macgregor nare, Triby, Chancellor is a seven1.900 fbs. He was bred by Mring favidson, Burnthill, Foveran, and is by Rising Star (7198), out of Young Rosie these horses have been it satisfort to note that in the Province. auction, arter being brought to Princeton, 8ocieties, which gave $\$ 705$ for Copyright, Chancellor, so the Crederic, and $\$ 725$ for their purchase price alone $\$ 1.470$.

Receent shorthorn sales or shorcent serines of in the Western auction states has
resulted very
 or $\$ 14,000$, on June and, sold 62 heal vi the three highest price was $\$ 800$ tarshall. Miouquet, bought by A. Chrystal. Jurathon, Mich. E. R. Strangland, ery wot day, with the country, on a witcol and the people feeling very vargely buer Finld cow, Flora 22 nd, the celle Imp. fourghest price of the day. Alling for 8505 , hb, at Morning Sun, Iowa, on Iul Alexander Made an average of over $\$ 200$, the
rice, $\$ 400$, being ice, $\$ 400$, being paid for the three-
id imported cow, $\&$ Sors, at Allerton, Iowa, on Gth, with the rail way service badly
ralized by washouts, made an averiflalized by washouts, made an aver-
$\$ 200$, three cows selling at $\$ 500$ to eaci, thate a bows calliling at for $\$ \$ 00$. At the ay sale at West Liberty, Mo., thirtylead averaged $\$ 157.00$, The the the
$\$ 300$, was paid $\$ 300$ was paid for Mysie of
Low Lawn, and $\$ 105$ was the lowest Leached. $\begin{gathered}\text { Lawd } \\ \text { The Messrs. Flynn \& }\end{gathered}$ \& sale on May The Mesth, nears. Felynn as badly handicapped Dy wainhout
be railway lines, but forty-five head ted $\$ 162$, fermates but forty-five head the same price. These two seles
one a goodidea of the general of the market.

THE FARMER'S ADVOCATE
What Alexander Galbraith \& Son Say About Zenoleum Dip:
e are pleased to say that we have always found Zenoleum to be effective and
moery yay as good as cropesental.
ALEXANDER GALBRAITH \& SON, Janestile, Wis.



Nu
OUR MACHINES were awarded the ONLY Gold Medal on Cream Separators
at the Pan-American, and our record there for clean skimming was in keeping
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?PORTLAND CEMENT? $i=$ Concrete Silo


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JUIIN DRYDEN \& SON, gemprea op



SHORTHORNS and CLYDESDALES.

JOHNMILLER \& SONS. SHORTHORNS (IMP.)
 Edwand Robinson. maпкмам P. О. a stm SHORTHORNS.

 QBDMOND BROS.. Mellibrook Sta. and P. 0. BONNIE 40 rode north of stouffille etatition, BURN
 Spring Grove Stock Farm Shorthorn Cattle and LIncoln Sheep

Present of.
ferina in
in Shorthorns: $\begin{gathered}\text { Our otool bull, } \\ \text { Helr-at-1aw }\end{gathered}$
 SHORTHORINS, Lady Fanny and Beautye for ante
 James Caskey, Tiverton P.O., Kineardine Sta. Shorthorn Cattle,Lincoln Sheep

 J. T. GIB8ON. om DENFIELD, ONT. SHORTHORNS.
 cows in call, Scotch and scotch-toppec
H. PARKER, RIVERFARM.
 GRANDVIEW SHORTHORNS
 J. H. BLACK \& SON., Allanforp and station.


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per weck, and about 30 to 6 lbs. per year, and
will pay son its cost price annualy with ane
cow, and pay for itself in one year with 12 to
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Cream Separator and prove to be superior in
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cleaning close skimming, quality oream and
butter, style, fine finish and lasting service. The only Cream Separator havivg service. bow
and all parts made and fnished ing it one sho
(ainadp under


 charged, that requires hot water at the barn to
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The National ic is is The National is deeigned for conventence and
to overcome every objectionable feaure found
in other Cream separatora, A A in other Cream separators.. A A sample machine
sent tor arree trial to prove all that is claimed
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Capacity 450 to 500 lbs. per hour.
Capacity, 330 to AL So libs. per hour.
Napacity, 250 lbs. per hour.
Give the National a trial. Send for particu-
lars to any of the following general agencies:
The CREAMERY SUPPLY CO., Guelph, for South-western Ontario.
The T. C. ROGERS CO., Guelph, for Ontario North and East. JOS, A. MERRICK, Winnipeg; Man., for Manitoba and N. W. T.
John A. Robertson, 108 Union Avenue, Montreal, Quebec,

## The Raymond Mfg, Co, of Guelph, <br> GUELPH, ONT.

REAVER VALLEY SHORTHORNS
 Shorthorns and Shropshires, $\begin{aligned} & \text { Scotchand Sootch } \\ & \text { topped familiee o }\end{aligned}$
 Maple Grange Shorthoris
 Owen Sound P. P. D. End Station and Port. Shorthorns and Berkshires.

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We are now offering 12 heiters

Imp. Shorthorns and Lincolns

R. Mitchell \& Sons Neison, Ont.
Present offering three extra good thulls from 12 to
14 months, two imp. in dame, and one from imp. sire
and dam.
slso a number of Scotch heifers in ca
Burlington Jet. Station and Tel. Offce.

If guarantele a 85.00 package BARREN KOW CURE postpaid, to make any cow under 10 yeara old breed
or reftud money. No trouble, no rist.
twioe a day
Given in in fea L. F. Solleck, Druggist, Morplsburg, Ont Three Ane SNAP IN JERSEES bull, not akin to to cows or bred, and as go dy youn,
the four. Wriny
Price, $\$ 225$ to

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for rearvice, sired by
calves of both sexes.

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Write
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 Ten Yearling and Two-year-old Heifers sired by Nero of (ilen lionge, and bred to
Ientona.Achie ememb.
E. B. HINMAN \& SONS. Gpafton, Ont Maple Park Farm Holsteins.

Riverside Holsteins
Choice young bulls for tale, trm 3 to 107 months
old, whyse sire and diun are in the Canadian Ad
vanced Record of Merit.


## - GOSSIP

 LIANT VICTORY.-With their Canadia Imperial Windmill, the Goold, Shapley \& achieved the highest possible honors in world-wide contest held at London, Eng under the auspices of the Royal Agricul tural Society. Twenty-two wind engines petitive event, and it io a matter greatest moment and congratulation that prize. We all shine in the reflected girs Every loyal citizen of the Dominion should feel a new and buoyant pride, for facturing have triumphed decisively man atrongly impressed was Lord Strathcon with the far-reaching possibilities of th $t$ its that, immediately upon hearing ful firm in terms of praise and felicita The winning wind-engine attracts at tention at once on account of the great length of stroke ( 22 inches) of the double inch brass cylinder. The full-bore two gallons. The valves are of vulcanized rubber, each being provided with spiral spring to insure rapid workingThe valve seats are bruss pattern, carefully faced and of whee that they can readily be removed for in spection. The tower is of angle steel The posts are built in sections of ten
feet, and ail the ends are butt-jointed averng a shear strain on the bolts the angle irons forming these are drilled to receive the diagonal tie-rods which posts are carried five feet The cornen ground level, where they are fitted to cast
iron shoe-plates which foundation timbers, 14 inches wide and 3 inches thick. The wheel is 16 feet in
diameter, and diameter, and has eighteen sails. The
outer rim of the wheel outer rim of the wheel passes through
the sails, and is riveted to a bracket stamped steel fitted to each sail.
hub of the wheel is made of to enable the arms carrying the sails be firmly braced. The roller bearings at long. The end thrust is taken by a
ball-bearing on the inside A pinion imparts. motion to the mangleis the unique design of this which enables
the exceptionally long stroke to be employed. At either side of the
pinion cams are proxided to throw the rack over at each end of the stroke, to
change the direction of the pump-rod from the upward to the downward stroke fixed at the top and bottom of the ara and the cams engage these at either end or the stroke. During the upward and
downward motion of the rack the pinion is held in gear by a steel guide-plate or The method of a flavernmed roller. Simple, and differed in oue important poin rom all the other engines on trial
While these were wound out of gear order to stop them, the engine of the
Goold, Shapley \& Muir Co into gear by a striking wire. Cons
quently, if this breaks the engine st itself automatically. The turnable rin
revolves with the engine cap when the wind changes direction, an
the cone rollers carry the weipht engine, and turn only when the eng
governs itself, or when the machinn coverns itself, or when the machine
pulled in at starting or let out he pull-in wire, the leverage on "l
side being greatest, the power pring is overcatest, and the engine t
nto the wind and from the act
$\qquad$
$\qquad$ the wind relaxes, the spring will
wheel back at right angles to
where it will remain full in


Brookbank Holsteins 18 to 25 lbs of butter in 7 days' offilill test are th
records of this herd of Holatein
 GEO. RICE, Oa

HOLSTEIIS I TAMWORTHS

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from producers, and that HOLSTBIN BULL, bred
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H. BULLERT,
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ohbioe breending
or come


The Greatest Herd in co
We we Gralest Herd in Canada
 10 bulla, imported over Oud hundred head. For sale-
at me bred cows and h hifiers all
and yges and a tew unregistered family ows. We invite
you to come and de
Ci
 Ayrshire Bulle Nf ast August, Novemier and March births, Alo
fow heifers due to calve in fall and early winter, Neldpath W. W. BALLEANTYYNe SUNNYSIDE AYRSHIRES years present offering is is 10 heifers, from 10 mos. 10
noll
are good, etraight, oline and 8 young cows rare good, ,itraight-lined lot, and will be sold crows-
J.W. LOGAN, Allan's Corners P.O., Howick Sta. W, F, STEPHEN, Trout Rivpr, Que, breeder choice bulls fit for servioe, and severat buil A calve
sired by Klondike of St. Annes 8897 and from dee
mill milkers, with good udder and teate, Carr's Crosing
1 mile, G.T.R.; Huntingdon, 5 miles, S.L. \& A.R.
 Including cows, heifers and young bulls out of
our prter and sweepstakes cows.
Found ation Joleoted with due rearard to quality and pro-
duytivenseas. Come or write. M. WTLIE, - HOWICK. QUEBEO DAVID A. MCFARLANE
 Young stook for sale from imported and home-bre
foundation. Prioes reasonable. STOCKWOOD AYRSHIRES
 WATT BROS., AAllan's. Corners P. 0
St. Louis Sta., near Howick, Que. YRSHIRES AND YORKSHIRES
 Menip Stock Farm Uhoice youn


Maple Cliff Dairy and Stock Farm BERKSGYREBHRECCATTLE, Special offer this month in young b-ars. of
Hh breeds, fit for service. One young bull, Earm adjoins Central
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 and it pays to have a fence that is accident proof. The No. 7 Top Wire in Page Fences is break-proof at 3000 pounds' strain-common wire same size at 1700
pounds. Page Fence Wire is tempered to stand that strain. Its coil takes up summer slack and gives spring
for winter tension, and acts as dental strains.

PAGE WIRE FENCE CO., Limitod
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## AYRSHIRES

WATSON OGILVIE, PROPRIETO:

 The they won all the herrd prizan, ind medals,



ROBERT HUNTER, Manager.

SPECIAL OFFERING FOR THIS MONTH
 Guernseys. Oue bull, ononothn; one boll 3 y year ISALEIGH GRANGE FARM,
danville, p. Q.


## Tredifinock Ayrshires,




 NETHERLEA AYRSHIRES. Present offering: 3 bulls fit for service, prize
Winners, alo a few young females, sired by
Naporon of Auchenbrain (imp.), whose dam s.
record was


[^7] HIGH-CLASS AYRSHIRES

AYRS ANO HOME-bRED

Rots Hunter \& Sons, Maxville, Ont.



At the annual meeting of the Americal
Holsten-Friesian
Breeders'
Associntic
 ed president, and Mr. F. I, Was elect
Putney, Vt, serreaty


Vanced Registry, reported that duving the past year, commencing May 16 th. 1902
end closing May 15 th, 1903 of 640 cows were received to Alvanced on gistry, 635 on oncicial records and fiv
private
records.
Many of the 60 dave records ranging from 14 petition for prizes closed May 5 th, Which time 604 recorrs had entered in
the lists. During the wan The lists. During the year, 38 bulls
were received to Advanced Reristry 3 s Were received to Advanced Repistry, 34
of which were qualified by official records
of The retiring more daughters,
lett, in his annual address said
past is the nano

| of this association. |
| :---: |
| heen |
| Fresh $h$ the existence |

 our cows officially the pupervisod by by exper ment stations estabishervised the experit
accuracy of every record accuracy of every record entered for Ad
vanced Registry. Under such supervi-
sing of 80 and calculating butter upon a bas
pent. fat, a heifer at ono and ten months of age has surpassed any
previous record for animals of her are with a yleld of tor animats. of her and 5 ozs.
butter in seven days years of age has made a world's recor
for animals of that class, with at four years of and are ${ }^{\text {ors. }}$ A heifer
enormous reached the and is breveted the world's champion for Least, a mature cow has scaled the sumauthenticated record of 30 lbs. and 10 ozs. butter in seven days: and Satio
Vale Concordia has erected for herself a monument that will be as last ing aself the
beautiful fields at Wal wortht hare recold stands out as a befiting testimonial The great skill and untiring energy o
that now retired firm by whom she will
bred."
a prolific sire.
At Keppoch, Cardross, fays the Scot-
tish Farmer, Mr. Montague Baird's beautiful Danegelt mare, May, a daughter of
Mr. Cairdes (of (Grenoyk) funcus tow mare, Pimpernell, has had twin foils to One of the toals died shortly atter hirth
the other is doing well. Mr. Raird' Che other is doing well. Mr. Nairr
Goldfiner mare has dropped a neat fill Coal. also to Heden Sensation Mr
Morton, Aikenbar Farm, Dumbarton, hay had the misfortune to lose twin foals
ired by Heden Sensution Mill of Kier. Dunblane, nad four wares
put to Heden Sensation within two
european advertibemente.
THE RIBY HERD and FLOCK shorethorn cattle and
an long wool sheep HENRY DUDDING Riby Grove, Great Grimsby, Lincolnshlre

 of its history, datining bick tion that at no perio

 ter of ghuineas Challenge Cud for the bes
 world. CABLE-Dudding Keelby, England HAMPSHIRE DOWN SHEEP GREAT
ENGLISH PEDIGREE SALES

July, August \& Sept., 1903

50,000 PURE-BRED EWES.

Waters \& Rawlence, W. W. GHAPMAN, Seerotary of the Natlonal Shood Broed
ers Soertary of the Kont or Romnoy Marsh
Sheep Ereeders
Assoeiation, and late Soerpotary of the Southdown Podigroo Live Si


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English Shorthorns.

 Retion. Wme Harm, Alnwolk, Northmmbariand Rno HAMPSHIRE DOWN

## SHEEP.

 Splendid Mutton, Good Wool, Great Weight.
 Iil climates, , hilust in in the of onnosititution, dadppted to


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FAIRVIEW SHROPSHIRES




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 TiOE Ont NO HUMBUG.



COOPER SHEEP D P
STANDARD OF THE WORLD for ${ }^{\text {an }}$
 vans \& Sons, Montreal and Toronto.
LITTLE:S".
PATENT FLUIU (cNon-polsonous).
SHEEP DIP
AND CATTLE WASH
Non-Poisonous Fluid Dip
shll the favorite dip, anip proved by the
tostimony of our Mininter of Agri-
oultare and other large breeders, For sheep.

Killis tiogk, magrotas : curea ecab; heale old sores
wounde eto, gnd greatly increases and im prove growth of wool.
Cattle, horses, pigs, etc.
Yeanges the eskin from anil insecte, and makee th,
coat beautifully sott and gloesy. Prevents the attack of Warble Fly.
Hoale saddlle galls, sore shouldera, alcers.
ote. Keepa anl mals free from Infeetion. No danger, safe, cheap, and effective Sold in large tins at 75 cents. Sufficient in eaol
to makke trom 25 to 40 gallons of wash, aocording 4 strength required, Special terms to brreeders, ranch th

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 Write us before buying elsewhere Addresats, F. H. HEIL, Proprietor, LUCAN, ONT.
Box 35 . Box 35 . Telegraph and Railway Station. $\quad$-om
PRITE HINNING COTSWOLDS.
 Dorsets Chesters soama mian beo
 om MARDG. "Maplavine, FARu""


 LINDIEN OXRORES
 1st, 2nd and 3rd yearligg ewes and ewe reml 1 mps. Ali
these ewes retained in flock and the beet rams
American Leicester Breeders' A. W. Smith, Pres., Maple Lodge, Ont Podifrees now being recived tor Vol. 4.
For inlormation, blanke, evc., addrese : A. J. TEMPLE, SEO.. GAMERON,

## Dorset Norn Sheep

 Helarkese flock in America. The most oelebrate prizew innera at the Columbian Ex
hibition and Canadian exhilisitions.

John A. McGillivray, Uxbridge, Ontario, SHEEP BREEDERS' ASSOCIATIONS


> LIVE STOCK
> West's Disinfecting Fluid

## gossip

valifil home shorthorns.
station on the Elora and Owen Sound Iunchin two miles from Streetsville miles west of Toronto, is the beautiful Messrs. S Valley Home Stock Farm of is maintained a hight-class herd of Sher horn cattle, at the head of which stands
the sterling Creek Bantr $=40076=$, bred by w Flatt, a sturdy, robust and symmetrica
son of the typical Scotch-bred son of the typical scotch-bred bull, ImI)
Lord Banf $=36053=$ winner in 1901 first prize at Toronto, frrst and cham-
pion at New York State Fair and first at the Pan-American Exposition, and sold
at auction in Chicago the same year to $\$ 5,100$. His dam, Imp. Proud Amar
anth, of the Cruickshon a cown of great scale and a deep milker
was bred by Mr w Aberdenshire, and sired by the noted Highland champion bull, Pride of Morry
ing, of the Cruickshank which gives Trout Creek Banf a com.
bination bination of the best blood of the breed,
and, together with his indivel cellence, should ensure him a prepoten sire of the right stamp of stock. The
female end of the herd embrace sentatives of a number of leading Scotch Tamilies. Prominent among these is the
excellent imported cow. Gilostering Cth of the favorite Miss, Closterina 6 thin
added added to the herd last year-an $\$ 800$ pu
chase at the Hamiton last. Her sire, of the Uppermill Beas family, sold for a long price to South ${ }^{-1 m e r i c a, ~ w a s ~ g o t ~ b y ~ t h e ~ D u t h i e ~}$ bred Chieftain, and his dam by the noted
William of Orand William of Orange. Glosterina 6th since
her advent at Valley Home her advent at Valley Home has produced
a beautiful and promising heifer coll a beautrin and promising heitier calr, im
ported in dam, nod sired by Luxury, of
the Inveramomery Ine Inverquhomery Rosewood family, Mof the Bruce May Mower family, bred at
Heatherwick is Heatherwick, is an excellent representa
tive of that useful and broad and breedy looking, and due to calve In October to service of 1 Imp.
Greengill Archer, a son of the Orance Blosson bull, Archer's Heir, who was
sired by the 86 . 0 , sired by the $\$ 6,000$ bull, Brave Archer,
of the miss Ramsden family. Tmported Rosie 3 rd $=38276=$ a red five-year-old cow, bred by Mr. John Young, of Till
bouries, is a worthy representative of the Duke of Richmond's favorite Jilt tribe,
whose sire, Lieutenant, was by Arm prizewinners, Clear the Way ( 476041 ), and
Rosin 3.ell is rosse 3rd is nursing a capital red bull
calf, born in November, sired by tul Scolland's ${ }^{1}$ rite, a Cruickshank Clipper,
and son of the great Star of Morning by Pride of Morning. Nonpareil 60 th Wroportions, represents that favorite red heifer calf by Favorite $=30955-$ Indian Statesman, by Imp, Indian Chief, of
the Cruickshank Victoria tribe the (ruickshank Victorifa tribe. Of the
Kiniellar Roselluuls there are three good









Farnham Oxiords and Shorthorns





HILLCREST HERD OF Large English Perkshire W. S. CARPENTER,




 Am ofroad lea oxpords,"


O. I. Chester Swine Bars fit or ser




 Frok saLe. Two oupg opmb hed th Dand
 SAZZEL PELL Newcastle Herd of Tamworth Swine




 WILLOW LODGE BERKSHIRES


 both euxe young took on
 Yorkshires, Poultry and Collies


IMPROVED CHESTER WHITES




Maple Grove Herd of Large RS From inpored and homentred

My brood sows are mported or show animale, and
the sires are big, long fellows of the bacon type
For For sale: An excellentito of of young pigs, and A fow
young sows reoently bred. Cann

Large English Yorkshires

## lais Yorkhires

Sows sare in pipg, boars itit for service, sows ready to
reed, boarg and bows 2 and 4 months old. Satiofac-
 PINE GIROVE FAIRMI HIEIRID The oldest-established registered herd in
America.
We have 12 ingorted boars and
ows and 20 home-bred animals breeding, and ws and 20 home-bred animals breeding, and
have a limited numberof young boars and sows
for sale, suitable for this fall's breeding. Salis. hor ale, suitable for this youll breeding. Satis-
faction guaranteed in all mail orders, Joseph Featherston \& Son, Strootsilllo Station, C. P. E. E., and P. P. . and Tolograph. GLENBURN YORKSHIRES won Gold Medal at averages 100, headed by the choice baors, Oak Ledge
Prior and Pine Grove Squire. Twenty brood sows
 LANGELIER'S YORKSHIRES.
Mryimportation of Yorkshires has
arrived, and is rather better than
expected. Imported hoors and sows now for sale at prices consistent
with quality. Corre cpond ene
cheerfully answered. US. LANGELIER, Quebec Ciy YORKSHIRES AND BERKSHIRES.
 Yorkshires alld Holsteins
 Weston Herd Large Yorkshires
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 Clarkzaon Station, G. T. E.

## DR. McLAUGHLIN'S ELECTRIC BELT

will do the same for you. If I fail to convince some people it is because they will not use their own judgment. I don't ask you to take my word only-ask those who have used my Belt. En my methou of theat when they see how the cure is made it appeals to their common sense. There is no mystery about it. I give a free test to all who call. Here is another You can read what he writes to me:
' If anyone has given your Belt a fair trial I have, and I do not regret it. When I got the Belt I could not stoop to tie my shoes, and had to be helped to get my coat on. Now I have not a pain or an ache and feel as well 9 I ever did If I feel sore after heavy work I put the Belt on and get up in the morning as limber as ever. I recommend the Belt to every
one I see. I was 82 years of age last May."

## Even Unto Old Age You May Be Free from Pain and Defy Your Years.

I will cite you another case, this one of Mr, Philip McGahey, Riviere aux Pins, Que, Read what he writes me:-
"I feel now I am a new man. For forty years I have had a bad back, now I can run a race or pick up a pin, I feel so smart; no pain. I am in my seventieth year; never was so well in health as I am now. When I used to be bad, I would be a month that I could not stoop to lace my boots; now I feel no pain in doing so. I am just as smart as any young fellow at present. Sir, no one would be without one of your Belts if they knew the good to be had from them. have recommended them highly to all my friends, and you will soon have some orders.

The human body is just like an engine. It breaks down when the physical energy is overtaxed-that energy is ELECTRICITY. I have here a means of replenishing the electricity of the body, and that is the basis of my treatment.

Decay in old men is similar to general debility in younger ones. Years have nothing to do with it. In every case it is the failure of the made the vital organs. Here is another
"The reason I have not written you earlier is that I wish to do you all the justice in my power. I have been doing this among my friends in this city and elsewhere. Yesterday, when I was in St. Thomas, I think I made known to ffty ersons the state I was in when I wrote you about the Belt, and the good results I have received from wearing the same the Belt has done for me all you said it would. The electric treatment I used some time ago was of so much beneflt that came to the conclusion that if an occasional treatment of twenty minutes did me so much good, a steady flow of elec tricity into my system for hours would do a thousand times more good, and now, at the end of a few weeks' treatment, can say, Thank God for your, Electric Belt. If I had one years ago it would have saved me hundreds of dollars, and oh what pain and misery. I don't have to get up every halt hour through the night as I used to-no more pain or sedimen or disgusting odor, The pains and frightful nervousness are a thing of the past. It it will do all this for an overworked, run-down man of fifty-six, what must it do for a young man ?'

An old fellow, a pationt of two years previous, came to see me one day and asked me to have his Belt overhauled, as he wanted to putit on again. eminded him that he had repor ed himself cured two years ago, strong and sound, "But," said he, "I am 81 years o age and not as well able to stand knocking about as I was in my youth, and I wear the Belt occasionally, not because of present need, but just so that I will have strength to spare in
ase of demand. If you are riding a bicycle on a level ground and see a hill before you, what do you do? Put on more steam, eh? older every day and need more steam. That's why I wear the Belt."
I want a test case for my New Eelt. I will pay $\$ 1,000$ in gold for a case of Rheumatism, Pains in the Back, Weak Kidneys, Sciatrca, Lumbago
Varicocele, Prostate Trouble, Torpid Liver, Indigestion or Dyspepsia that my belt will not relieve in in aricocele, Prostate Trouble, Torpid Liver, Indigestion or Dyspepsia that my belt will not relieve in one month's use according to my di ections.
 security for the price of my Belt. I will send it to you with all necessary attachmeats suitable for your case and you can

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DR. M. S. McLAUGHLIN, 130 Yonge Street, Toronto, Ont.

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