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Vol. LI.

LONDON, ONTARIO, SEPTEMBER 14, 1916.
No. 1251

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EDITORIAL.
Put in a little wheat if you have the land ready

Exhibition reports in The Farmer's Advocate are urate and complete.

Watch the little weeds in their effort to produce seed his fall, and cultivate to kill.

It is not always the man who talks the most who has the best stock. See for yourself.

Do not forget that the boys at the front are still in need of comforts. Keep up the supply.

When sales of breeding stock are most numerous, it is more difficult to make a big showing at the fairs.

A pure-bred male animal, not of good conformation and not showing reasonable thrift, should be altered.

Canada is a big country, but there is no great hurry to fill it up witn foreigners who can scarcely be Canadianized.

Give the boy the responsibility of looking after some of the stock as his very own this winter, and watch the effect

The man who keeps the plow going, even though the ground be hard, is generally best up with his work when Jack Frost closes operations in the fall.

Be the better prepared for after-the-war conditions by being prepared to farm better than ever before. Let us win our way to the top by our own efficiency

It is a satisfaction to note the uniformity in the breeding classes at the big fairs. Exhibitors and breeders who cater to them are having a good effect upon Canada's

Attendance records should not be the sole aim of any fair, but such records, made as a result of good management in putting on a superlative exhibition, are a source of gratification.

A: "Weldwood" the corn crop is so heavy this year that it is necessary to build another silo to accommodate it, and it is all due to thorough underdrainage and frequent cultivation, for it got a late start and has had practically no rain later in the season.

Show the young men that there is something in farming and more of them will stay on the farm. Many are driven away by the grumblings of the older folks, who see nothing but drudgery in farın life. Talk about the good things in connection with the farm and forget the unpleasant.

## Shows as Live-stock Indicators.

In conversation with a live-stock breeder, a few days ago, he made the remark that it was not always the best indication for a breed to be too numerous at an exhibition. It was his contention that great numbers on show might mean slow sales and an increased effort on the part of breeders to dispose of stock. As a general thing, the breed most numerous at the fairs is the breed most popular in the particular part of the country upon which the fair draws, but, notwithstanding this, we are forced to believe that there is something in what our friend said. It is also quite true that when demand flattens out too much, there is generally a small show. This year, at Toronto, some breeds of stock were not as strong as usual. Shorthorn breeders, for instance, claimed that the great American demand had so depleted the show stock in Canada that it was difficult to keep a real strong show herd together. The demand for breeding and bacon hogs had an effect upon some herds of swine at the fair, and the great sales of sheep influenced some of the breeds of this class of stock. These are just a few instances to show that the smaller turnout of stock at a fair does not necessarily mean a slackening of interest in, or poor times for a breed. It may indicate that business has been phenomenally good. On the other hand, when classes are extremely well filled, it may not indicate brisk business, but rather more strenuous competition in making sales. At the present time Canada's live-stock trade is flourishing

## Try a Little Cost Accounting.

The greatest value in a system of accounting to ascertain the cost of various farm products to the farmer may not be the simple fact that a profit or a loss is shown nor that a means is found of cutting down expense on any one particular phase of production, but that such a system serves as a stimulant to greater and more concentrated and better F gulated effort in all the farm work. When the farmer knows just what a thing costs him, he knows whether or not it is profitable. If it is not profitable, or even if it is making a little money, he will get down to hard thinking and endeavor to evolve a system in the work which will cut down cost and correspondingly increase net returns. There is, as now practised, too much hard work and not enough deep thinking practiced by the average farmer. It is, we'll admit, rather difficult under some circumstances, to find time to think, but it is always expensive to neglect it. Try a little cost accounting in one department of your farm work, and see if it is not a revelation to you. The cure will soon be applied to all departments once it is tried. It is a great and lasting stimulant and a breeder of enthusiasm.

## 'Carry On.

As the news from the battle front steadily grows better and more reassuring, we are liable to forget that there are thousands of men in the trenches who still require comforts and all the help those at home can give them. There is a tendency to belittle the gradually failing strength of the Teutons. It would be well tó be prepared for a longer struggle than many believe will continue. If the war collapses suddenly, no one would regret that preparation had been made to give the boys all they needed, even though the fight had gone on for months longer. A cold winter is approaching, and the need for supplies will be just as urgent as ever. As time goes on and more nations join the Entente Allies, Germany's strength wanes. but it is not broken down yet. The preparation must be kept up that the fight may be won decisively, a it should and will be. Keep the work going at home.

The Small Breeders' Opportunity.
The remark has often been made that the small breeder has very little chance of winning in the larger shows when he is obliged to exhibit against the moneyed importer and dealer in high-class, pure-bred stock. It sometimes looks as if he would require an exceedingly good animal to win, but we still havé confidence enough in Canada's live-stock judges that, if the animal were good enough, it would win. But the greatest honor is not in the winning, although that is the part that gets most publicity. To the breeder and feeder should go more of the credit for conspicuous winnings. The small breeder, especially if he is located near a larger breeder who has some high-class sires, is in just as good aposition to breed a few good ones as is the big breeder. At some of the recent big fairs in the United States some of the best prize winners were bred and raised by men who had only a few females of the breed. In the Old Land many of the winners are bred by tenant farmers who have a few good females and mate them judiciously. The same is true, to a certain extent, in Canada. The small breeder has an opportunity to breed the good stuff, and he should make every use of it. In his advertising he should never forget to mention the' fact that his herd or flock produces winners, even though they may have been sold to a big breeder or dealer before they were shown. And it might be wellfor theencouragement of the young breeder and the older breeder who produces choice stock on a small scale if the breed associations in Canada would consider adding something to prize money at the large fairs to go to the breeder of the stock, limiting this, of course, to Canadian-bred classes for shows in this country. Whether this is done or not, the small breeder should go ahead to produce the best, and if it wins after it leaves his hands, he should use the win, in so far as possible, to "boost" his own herd. Money will buy good ones, but it takes brains, ability and foresight to breed and fit them. To the breeder and feeder should be most of the honor.

## What Is Consolidation?

The consolidation of our rural schools is not a newfangled fad, and indeed has never been a fad. On the other hand it is likely to prove the only efficient way of improving district schools in our municipalities. The movement for consolidation of rural schools began in Massachusetts as far back as '1869 and has continued in that state to the present day, until now it can hardly proceed any farther for the simple reason that there are comparatively few one-room schools left. So successful was the movement that it was adopted as a state policy, and in 1882 the small district unit was abandoned and the township unit organisationadopted officially in its stead.

Neither is it an untried experiment advocated by educators and agricuiltural leaders to take hard earned money out of the pockets of farmers for the sake of notoriety to themselves with doubtful advantages to the children. On the contrary, the movement has proved so successful that it has spread over nearly every state in the republic to the south of us and forms part of the educationa! system of thirty-two of the states, while, in addition, examples are to be found in the others. The movement is not new nor is it a fad; and it is far from being untried or impractical. Indeed it is gaining momentum every year and when it is proper! y appreciated by the farmers it will prove irresistible. Already it has gained headway in Manitoba and has been started in Saskatchewan. In Ontario, the machine system of education has done most for the higher types of educational institutions and for the cities, and least for the country districts. In this province there are only two consolidated schools, and one of them was a gift, located at Guelph.

The Farmer's Advocate

## AND HOME MAGAZINE

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Quebec needs consolidation most owing to the scattered nature of the English-speaking rural communities,
and here it is most difficult to secure because of the long routes that would be necessary for transporta-
tion. Probably the nature of consolidation and its advantages have not been properly understood
What then is Consolidation?

## The Old District School

At the outset it should be stated that our rural
schools first began by being built in outlying districts to serve the neighbors. Legislation created small school districts with elected school boards to super-
vise the instruction and appoint teachers and raise vise the instruction and appoint teachers and raise
the money. This last function was the most important this was done as badly as it could be done legally. But thus arose the old rural school-the little red school house-with which we are all familiar. the land was cleared and farmers got married, their
children went to school together, and in some gen children went to school together, and in some gen-
erations the enrolment was fairly large and the school prosperous. However, as the pioneer farmers were
all of the same generation, the younger population came at first in waves with alternative depressions
during which periods the schools lost in average at tendance, in public interest and in financial support, parental interest in the school, and their chief concern had such a small attendance that it was found uneconomical to continue them, and the pupils were
sent to another neighbouring school which then
became a union school

## The Union School.

The union school, however, is still an ungraded,
single-room school. It has no further advantages
than the employment of one teacher te number of pupils for whom two teachers were formerly
employed. The edurational advantages are no unless we consider the greater sociability in the play-
ground and the greater element of competition in
 even be inferior in type, if overcrowding were per-
mitted. In some American schools this actually took
place, until an attempt was made to lighten the teacher's place, until an attempt was made to lighten the teacher's
labors by adding another teacher to the staff. Sormetimes the two teachers actually had to teach in the
same room without partitions. In other cases a
flimsy curtain or improvised
cases an old district building was used without al-
teration or addition. This case of inferior consolida tion is a mere makeshift and does not improve educational conditions. But it may prove to be the Brigdenley, Manitoba, where the pupils of Mckinley district were added to those of Brigden and conveyed o the school at that place. This may be termed a partial consolidation and saved the ratepayers a considerable sum of money, as the expense was re-
duced from about $\$ 75$ a pupil to little more than half that sum. They do not have sufficient pupils yet to form a graded school, but expect to have them
 situated four miles from the nearest village has an ambition to achieve the fullest measure of conOuebec have been of this nature-mere partial con-solidations-and it is noteworthy that no one-room rural schools are now being built.

## The Consolidated School.

The complete consolidation results only when
two or three or more schools unite to form a graded school in some central or other convenient situation The pupils grome or high-school work in some cases. school are usually conveyed by some means to the school, generally at public expense in vans or sleighs or in private carriages, a small payment being al-
lowed to the parents. In some instances the parents laved willing to provide
are
conveyance themselves, or are windry provide conveyance themselves, or in the school sheds. The essential point is, however, that more than one teacher is employed, better
grading introduced and higher work provided. For example, Warren Consolidated School in Manitoba is a purely rural consolidation, comprising
the three former district schools of Hanlan Mradow Lea, and Invicta which were sold. Two teachers are employed, one of whom is male teacher who acts as principal. These two teachers teach eight grades, and prepare also for second and third class
teachers' certificates. The eighty pupils are nearly teachers certificates. The eighty pupils are nearly
all conveyed by the vans every day at public expense. These covered vans which become sleighs in winter robes. In the same provmers and provided with was abandoned and the thirty children are conveyed in
two heated vans to the town of Dauphin which lies two heated vans to the town of Dauphin which lies
to the southeast. There they have the advantage of a full collesiate course and manual training and trance and collegiate work. The town has schools and seventeen teachers. This makes possible a perfect grading, a condition which gives only one grade to a teacher. Yet the school tax in the rural
district wwa only $\$ 17.50$ for the average quarter section. But surely the advantages were worth
this! Thus we Two Types.
Thus we see that consolidation has developed types which should be clearly disting and has two
first type is the union school which still a one-teacher, ungraded school and in some cases is no better than the original one, and may even
be worse. Sometimes, however it is an ment and may ultimately become a real graded school, whenever the attendance justifies an addition to the staff and to the building. The union school, however, should not be confused with the higher
type and should never be known as a "partial consolidation." The second type is the district schools of one or two rooms each more at least two teachers, better grading, higher work and free public conveyance. This is the type to which
all rural districts should endeavor to A good example is the Cilbert Plains School, of white brick, containing six class-rooms, assembly hall and by an efficient staff of female teachers carries entrance work with twenty-eight pupils very suc-
cessfully. Here the children have all the advantages of education that city children have, without the dangers and also without being enticed citywards
through the allurements of city
life. There is no fear of their parents migrating to the city for the
sake of giving their children a good educt The difference of the two types is a fundamental
one; it consists of a difference in standards of work and in efficiency of education. The union school and still remains an ungraded rural school. The
real consolidated school is intended to secure higher standards of work, to promote higher education,
to obtain a better staf of teachers and a more modern
building with school doing advanced work.
Elimination of Weak District Schools. One of the most hopetul signs of progress for
country life is the great impetus given to the consolidan. Many of these nearly every state of the
Unitane now passed leg.
islation which either gives permissiuc solidate or compels consolidation For exa con-
several states have fixed an arbitrary standerd
below which rural schools cannot fall without ning the risk of being closed. This standard is
based on the average daily attendance and when
this is less than the prescribed number, the scheol

9, Ohio 12, Now indiana 12, Louisiana 10, Main noticeable variations in the limit set, but the intentio clearly is to abolish weak and unprofitable schools No teacher can be expected to teach more than two variety of subjects now placed with the grear of study. She cannot prepare adequately the work required for seven or eight grades, no can she be expected to change with lightning-liky rapidity from class management of children of five different mode of handling. The problem too many difficulties and requires too great differentiation of treatment to be managed successfully by any young teacher. The work may easily become be; it is difficult to plan a workable know they must and each pupil gets little teaching or individual tention. It is no wonder that the boys and atare glad when their school days under such and girls
come to an end.

## New School Laws Necessary.

State or Provincial legislation will be required legislation means very little to anybody unless there is an educational campaign to enlighten those who if these are unnage of such permissive laws. But preciated, no progress will be forthood and apegislature has fulfilled its duty by merely. No favorable laws on the statuite book and letting the matter rest there. Public opinion must be moulded is a minimul guaranteed. For instance, if there fails minimum limit for a schoo, any district which foils to meet the standard must be forced or aided the neighborhood. This is the case in Indiana in other cases government aid of a substantial natnre should be given to stimulate consolidation. The grants previously paid to the small district schools hould continue to be paid without diminution to the enlarged school. An annual grant should also be paid creasing with the number combined or at either inper school. As the transportation item is the heaviest part of the cost, a government grant of one quarter would half of the cost should be given. The state would be amply repaid by the higher character of good reason for giving a cransoldation. A further school work were attempted, especially if candidagh went on to take second or third class teachers' cer tificates or rural teachers' certificates. Thus the stass of province would be provided with just the right we have too many city trained teachoors. At present They are neither happy nor successful there; but the consolidated school student, after professional training of course, would be just the ideal person of teachers would school conditions. The scarcity of teachers would rapidly cease and a sufficient
supply of suitable teachers would be forthemer supply of suitable teachers would, be forthcoming
who would not be the proverbial square hole. Then again an opportunity would a reund itself for the efficient teaching of special subjects inke agriculture, manual training, domestic science, including sewing and cooking, and physical training. sponsible for them all. But satisfactory is rein these subjects are worth a grant, and this is of the methods adopted in Iowa to support solidation once it, is effected. It is a good method too. Just contemplate the possibilities for development of sports and games of all kinds. At Warren, Manitoba, the playground is six acres in extent provide spacious lawns, grounds for thool board ball, basketball, croquet and tennis, and large gardens and experimental plots. This is the way to look after the health, the play instinct, and the moral welfare of the rising generation. The saddest sight where eight or nine pupils wander around at recess, like bears in a cage, ignorant of around aimlessly not caring for them either.

Wherever the county or township system education prevails, the consolidation movement
has made most progress. Indiana movement schools in a township system, Washington has it in thirty out of the forty counties already, Florida in thirty-three of the forty-eight counties, North
Carolina in eighty-two of the ninety-two counties. In Montgomery County, according to the report
of the United States Commissioner, eighty-four per cent. of the schools are consolidated schools and only sixteen per cent. are district one-room schools.
It must be clear that consolidation has proved its value wherever a township or county is the admin-
istrative unit. It would also prove its value even istrative unit. It would also prove its value even
when the school district is the unit, if only the various boards would co-operate in giving it a chance. But In Illinois where the district is the hard, to move. the last available statistics, whereas according to rural children 200. Vermont sends one-fifth of her Carolina has now about one fourth, and North attending consolidated schools of one or more rooms.
And so the tale goes on. There is no doubt that con-
problem in country districts. Even consolidation hood road system, properly planned routes, and government assistance. These, however, can easily be overcome by persistent demand for their solutio and this should be begun by the farmers and thei natural leaders.
should be remembered that every city school of the homes, because in many a city block thess is a population sufficient to people a large-sized village But no city dreams of building a one-room school house for every group of thirty school children. City
schools are consolidated without the transportation problem. Consolidated schools in the country have merely the transportation difficulty to overcome. cases. Idaho transports over five thousand children Oklahoma eight thousand; Kansas nine thousand Minnesota sixteen thousand; and in Rhode Island eft. Yet there are some districts where the means communication are so : bad and the population so scattered that consolidation will hardly be practicable for many years. The old district school will still have a place in the less favored localities.- By Sinclair
Laird, Dean of the School for Teachers, Macdonald College.

## Nature's Diary

There is no sound more characteristic of early fal han the not of ree Cricket. It is on of the most persistent, if not the most persistent,
musician to be found in our fields or woods. It begins its song in the late afternoon and keeps it up, without a moment's pause, until just before dawn. The best endition of this song which we can give in syllables o my ears a quality about it which suggests is usty spring. Burroughs calls it" a ryhthmic slightl Thoreau a "slumbrous breathing;" and Anna Botsford comstock says "It is delightful, rhythmic and sleep-
irispiring." Personally I think that the Snowy Tre Cricket overdoes it a little, and that his note is nclined to become monotonous and a trifle aggraonly one of the insect musicians that seems conscious of the fact that he belongs to an orchestra. If you listen on a September evening, you will hear the inst player begin; soon another will join, but not see-saw of accented and unaccented notes; but not, however, until many more players have joined the concert. When the rhythmical beat is once established it is in as perfect time as if governed
by the baton of a Damrosch or a Thomas. The throbbing of the cricket heart of September, it has been fitly named. Sometimes an injudicious oon discovers his error and rectifies it. Sometimes, aso at night, one part of the orchestra in an orchard continue for some moments, as if the and discord may too cold or too sleepy to pay good attention. This in the late afternoon and the next morning. Many times I. have heard the close of the concert; with the wee sma' hours the
rhythmic beat becomes slower; towards dawn there is a falling off in the number of players; the beat is still slower, and the notes are hoarse, as if the r three are left the music stops abruptly
and the number of notes per minute in this species, athematical Dolbear has reduced this relation to a temperature in degrees Fahrenheit and equal the the number of beats per minute. Then $T$ equals
50 plus; $N$ minus 40 , divided by 4 . Dr. Edes and Mr. Faxon have tested this formula in Massatremely close approximation to works with an ex-
Thus we have accuracy. Thus we have a sort of animated thermometer in This the time of his song.
This species is a slim, ghost-like cricket. pale green, almost white, in color and about threehind legs, clear wings, and long antennae, it haler, long color, and the female has a long, sword-like ovi positor. It is with this latter instrument that the berry canes, in this way often doing a considerable amount of damage as the canes sometimes break feed on plant-lice of injury; the young Tree Crickets The floral procession of the year is now coming
to an end, and it finishes with a glorious blaze of to an end, and it finishes with a glorious blaze of
purple and gold-the purple of the Asters, the gold
of , the Golden-rods. Of Golden-rods we have in Canada a great many species, and in any one locality
there are usually from ten to fifteen species to found. The various species grow in all possible land
habitats, in the fields, in clefts in the rocks, in thickets well-m?rked and easily distinguished, while others
can be told from their allies only by very careful botanical study. One of the very common species which grows in fairly dry soil. It is from three to five feet in height, has a large, densely-flowered spreading panicle, a rough stem and lance-shaped leaves which are very prominently three-veined. A species of much the same height and kind of panicle
is the Early Golden-rod is the Early Golden-rod (Soldago juncea), but in this species the upper leaves are much smaller than
the lower ones which are broadly elliptical and taper into broad petioles. In the woods and thickets is a pretty little species, the Blue-stemmed Goldenrod, (S. cresia, ) which has a stem with a bluish bloom on it, studded with pale golden clusters of tiny florets for nearly its entire length. In swamps and leaves bogs the Bog Golden-rod (S. uliginosa) sends peatstem three or four feet in height topped by a densely flowered, oblong spire, the branches of which are so appressed as to give the plant a wand-like appearance. insects, which come to gather pollen and nectar there are at least three kinds of galls made by insects on their stems, so that the insect population of patch of Golden-rod furnishes an interesting entomological study.

## THE HORSE.

## Keep the Colt Growing.

The fall of the year is often the most critical time
with the colt. Very often his dam is allowed to run with the colt. Very often his dam is allowed to run taken in and compelled to do team work on the plow and other implements commonly used in fall cultivation The colt is often allowed to run in the field where the mare is working, which is a mistake, and unless the getting a fair allowance he is likely to "go back." This is weaning season bran for early colts, and the newly weaned colt requires a little extra care. Pastures are dry and browned, and whether or not the colt is weaned, it is necessary that he be fed a little extra. Fed in small quantities, cow grain. Keep the colt in out of the fles during the the and let him out nights, provided the weathe the da cold and wet. If the colt starts to fail now, it may tak all winter of careful feeding to get him going right
again.

## Eczema in Horses

1 have a horse 6 years old which has an irritation in his skin. He rubs himself considerably, which cause Could you prescribe a cure for him through your valuable paper as soon as possible? A Subscriber
Ans.-We have had several enquiries regarding this trouble of the and purge with 6 to 8 drams aloes and 2 drams ginger Follow this up with $11 / 2$ ounces Fowler's Solution of Arsenic twice daily for a week. Give the horse a thorough
washing with strong, warm soap-suds, well rubbed in washing with strong, warm soap-suds, well rubbed in
with a scrubbing brush. After this, dress thoroughly with a scrubbing brush. After this, dress thoroughly
twice every day until cured with a warm solution corrosive sublimate, 30 grains to a quart of water.
Heat this solution up to about 110 degrees F . before applying.

## LIVE STOCK.

Diarrhoea or White Scours in Calves.
Diarrhoea, commonly called white scours, in calves
appears in two forms. First, sporadic or accidental appears in two forms. First, sporadic or accidental iarrhoea, second, infectious or germicidal diarrhœe.
The first form is usually due to unsanitary oundings or wrong teeding, or both. It seldom
occurs in calves that nurse their dams, except in rare cases, where the dam's milk is abnormal. The first
milk of the dam (called colostrum) has a laxative effect, the dam (called colostrum) has a laxative the intestines at birth (called meconeum) if this milk is withheld, the intestine becomes irritated. Constipation often ensues, and is succeeded by a diarrhoea of a serious nature, caused by absorption of the toxic substance from the intestine. Changes in the dam's ration, excitement, unusual exercise and
disease are liable to change the composition of the milk and cause diarrhoea. When the young are raised artificially, or by hand, and fed milk from different cows, or when changed from whole to skimmed milk, acute or chronic digestive disorders that are accompanied by diarrhoea are not uncommon. Feeding calves and giving them fermented milk are common rapidly the trouble.
Gilthy qunitary surroundings, as dark, cold, damp, filthy quarters, lower the vitality of the young animals, and predispose them to diarrhoea as well as to other diseases.

Symptoms.-In many cases a more or less well paińs are often noticed. When diarchoea sets in, the symptoms, of course, are plain. There is a frequent discharge of semi-liquid or liquid faeces, usually of a pale-yellowish or whitish color. Hence the name "White appetite. After a time the discharge has a foul, disagreeable odor. The faeces may be made up largely of undigested, decomposed milk, which adheres to the tail and hind quarters. If diarrhoea be severe, the patient refuses to nurse or drink, and rapidly loses In other cases the diarrhoea while well time. not severe, and does not rapidly deplete the becomes chronic. In such cases, while the patient retains a reasonable amount of vitality and strength, it has an unthrifty appearance, the abdomen becomes large, commonerance Treatment should
animals should be provided with dry, clean, well-ventilated quarters, and allowed a reasonable amount of exercise. If the calf is to be raised by hand, the first milk of the dam should not be withheld, and warm, and often, for a reasonable length of time quantities, a change is being made from whole to skimmed milk or food of other nature, it should be made very gradually, and it is wise to reduce the amount given when a change is being made, and then gradually increase Pails or other vessels from which the animals are fed should be kept clean. Curative Trealment.- When the symptoms are not severe and the patient is reasonably strong and has a fair appetite, all that is necessary in many cases is to other fluid taken, mbout and add to the milk, or water. This is easily made by slacking a small lump of lime in a pail or other vessel, then filling the vessel with water and stirring it well with a stick. Then allow it to stand. The undissolved lime precipitates In some cases it is top is
raw linseed or castor oil to remo calf 4 to 6 ounces from the stomach, but in many cases the lime water alone will correct the trouble.
In cases where diarrhoea is acute and the patient ing the tis necessary to take prompt measures of check ing the trouble. In such cases 1 to 2 drams ( 60 to 120 be given in about a pint of a mixture of 2 parts new milk and 1 part lime water, every 4 or 5 hours, until diarrhoea ceases.
The Infectious form of the disease is due to a specific germ that exists in the surroundings. This gains entrance to the circulation of the calf, generally
through the navel opening, but may enter by the mouth, especially if the teats of the dam be infected. Symptoms.-The symptoms appear from a few hours, or even less, to a few days or possibly longer diarter birth, and are largely the same as those or ordinary diarrhoea, but usually more acute, and often termina
fatally in a short time.


Typical Shorthorn and Hereford Bulls Recently Sent from England to The Argentine.

Treatment.-Again special attention should be given to preventive treacir Me premaises in which clean. Where the germ is known or suspected to exist, the premises should be thoroughly swept and dusted, and then disinfected by thoroughly washing with a hot five per-cent. solution of crude carbolic acid, or given a thorough coat actid, or both.
cent. crude carbolic act
In addition to this, the navel of the calf should be dressed as soon as possible after birth, and several times daily afterwards, until thoroughly healed, with
a strong disinfectant, as a 10 per-cent. solution of a strong disinfectant, as a a 10 per-cent. solution of
carbolic acid or one of the coal-tar antiseptics, or a solution of corrosive sublimate, 20 grains to a pint of water. The writer prefers the latter lotion.
When a case appears, it is good practice to use lime water as for the common form, and if quite acute,
to use opium as for the same. A mixture that is highly recommended is one made of 15 parts new milk and 1 part formalin, a calf to get 1 teaspoonful of this to
each pint of milk. taken.

Cost of Pork from Packing-house By-products and Pasture.

Ontario Agricultural College in order to determine the value of packing-house by-products and pasture in the ration for hogs. In all, three tests have been reported, one with pigs that had just been weaned
to compare tankage and meat meal with skim-milk; another with pigs three months old at the beginning of the trial to compare the same by-products, and a third to compare rape and clover pasture with pen feeding. In ald been moderately low. The accompanying tables will explain the results in less space than can be done Packing-house by-products are very concentrated,
and consequently when they were used in a test they and consequently when they were used in a test they
were sparingly fed, they constituted about 11 per went. of the meal ration. The following table will indicate the value which the deductions were made.
with and from whe
will commercial feeds purchased are set down at the All commerci
retail price:


While these prices may not obtain at the present time, the cost of 100 pounds gain is calculated from
these data, and by adding a certain percentage to the these data, and by adding a certain percentage to the
value of the feeds and the cost of gain the reader can adapt the experiment and its results to his own
conditions. Very little barley was used in either test.

Results of Test No. 1

| Group | $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|l\|} \hline \text { Av. we. } \\ \text { ginning } \end{array}$ |  | $\begin{aligned} & \text { Ava daily } \\ & \begin{array}{c} \text { gai in ily } \\ \text { pig } \end{array} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Lbs. | $1 . \mathrm{bs}$. | I.bs. |  |
|  | 33.6 | 157.0 | 1.01 | 84.3 |
| meal and water | - 31.4 | 160.4 | 1.06 | 4.10 |
| 1 meat and water | 32.8 | 146.4 | 0.93 | 448 |
| ${ }_{\text {water }}^{\text {meal }}$ and | 328 | 156.8 | 1.01 | 3.61 |
| $\checkmark$ V Skim-milik and | 32.4 | 165.8 | 1.09 | 5.00 |

$\begin{aligned} & \text { This table is self explanatory, and it will be noted } \\ & \text { that the cost of } 100 \text { pounds gain was reasonably }\end{aligned}$
$\begin{aligned} & \text { low in all cases. The pigs fed on meal and water } \\ & \text { did exceptionally well under the circumstances, makiny }\end{aligned}$
$\begin{aligned} & \text { did exceptionally well under the circumstances, making } \\ & \text { cheaper gains than the others. It will also be noticed }\end{aligned}$
$\begin{aligned} & \text { theaper the skim-milk group made the best gains, hut } \\ & \text { the cost was hicher when we consider the milk it } 20\end{aligned}$
$\begin{aligned} & \text { cents per cwt. } \\ & \text { II the second trial pigs three months old were } \\ & \text { selected and fed similarly to those previously mern. }\end{aligned}$
$\begin{aligned} & \text { selected } \\ & \text { tioned. } \\ & \text { Results of Test No. }\end{aligned}$

| Group. | $\begin{array}{\|l\|} \hline \text { Av we we. } \\ \text { ai be- } \\ \text { ginning } \end{array}$ | $\left\|\begin{array}{cc} \text { Av. w. } \\ \text { at } & \text { close } \\ \text { of test } \end{array}\right\|$ | $\begin{aligned} & \text { Av, daily } \\ & \text { gain per } \\ & \text { pig } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1.bs. | L.ss. | 1.bs. |  |
| Tankage (A) meal and water | 69.4 | 153.8 | $1.14$ | \$1 23 |
| ( Tankage - ${ }^{\text {a }}$ ) | 71. | 1594 | 1.19 | 1) |
| 11 Beef meal, |  |  |  |  |
| (1) meal and wate meal and | 73.8 | 15.5 2 | 1.1 | 4.76 |
| water...... | 70.4 | 1.59 .2 | 1.2 | 3.34 |
| me.l. | 7 \% 31 | 171: | 1.33 | $+$ |

grown and skim-milk is not considered to any great extent, they have quite as economical a system of
making pork as in other sections of the province where more milk is available. However, where skim-milk is a by-product on the place it can be turned to good account, as the results of these trials have shown. It is generally considered that, in the absence
of skim-milk, young pigs should receive animal feed in some form or another. The groups fed tankage made cheaper gains than those fed on skim-milk, showing that the former product can safely be used as a substitute for skim-milk, but those allowed cheapness of gains, so one 'would naturally ask, "Why bother with the tankage?" The character and the amount of the gains made on skim-milk still commend that product as one of the best rations for swine but these tests show that pork can be made reasonably

Pasturing Hogs.
Still more hogs were divided in groups to compare the value of rape and clover pastures, also to compar pasture with pen feeding. All groups were fed the of skim-milk, although the pigs on pasture were fed less meal than those in the pens. The values at tached to these feeds were the same as in the previously mentioned tests. in valuing pasture, rent of land

Results of the Test

| Group | Av. wt. at beginning | at end of test | $\begin{aligned} & \text { Av. daily } \\ & \text { rain per } \\ & \text { pig } \end{aligned}$ | $\begin{aligned} & 100 \mathrm{lbs} . \\ & \text { gain } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| II Clover pasture III In pens. | Lbs. <br> 97.1 <br> 95.5 <br> 96.3 | $\begin{aligned} & \text { Lbs. } \\ & 163.1 \\ & 171.1 \\ & 173.5 \end{aligned}$ | $\begin{aligned} & \text { Lbs. } \\ & 1.01 \\ & 1.16 \\ & 1.19 \end{aligned}$ | $\begin{array}{r} \$ 4.40 \\ 4.08 \\ 4.26 \end{array}$ |

It will be noted that the pigs on clover pasture made the cheapest gains, while those in pens made those on rape pasture. By way of comment on these o advantage, hogs should writes: "To be pasturec 100 pounds when turned out.

The English Shorthorn Situation.
$\qquad$
It is good to read and to realize the sound view ocate" as to the Shorthorn situation, a critica in England.
It has all arisen because the Royal Agricultural Society of England refused to elect judges for the cause the Americans have taken full ore, and be of the chance given them to drive deeper home the wedge, the thin end of which was got in when America sent to Argentina, a selection of Shorthorns chosen by Secretary Hardirg for some of the large estancias
over there. The Royal Agricultural Society's view was that war conditions were against Englishmen yoing over, but Englishmen are now up in arms barred English buyers from going over if the Breed instead of an Agricultural Society.
Among the Breed Societies and the Royal there is a nice little bit of feeling engendered, and an
enquiry into the whole thing is being demanded.
Englishmen have heard the call to the chorl Englishmen have heard the call to the Shorthorn
ociety to "awake". A publicity campaign is to be
tarted and some breeders have gone so far as to atarted athe formation of a Co-operative Sales As sociation to deal with all fore:gn and colonial orders
for Shorthorns. The British Shorthorn Society annot sell and cannot exist as a profit-making association without getting its rulcs of association,
altered into that of a company, liable to make profits At the moment, the future of the British Short outcome of all the ideas and suggestions that are floating about, no one can say Certain it is that the British
are not going to lose the Argentine trade without great fight. America has offered to "share" the
trade of South America, but the Englishman tays "No-I'm going to have it all, or at any rate, ald
The idea appears to be in U. S. A., that we are short of tip-top-quality cattle in England. Such a
state of affairs does not exist. We are not reducul 1) eating our pedigree cattle, not by a long, chalk cattle -beef and dairy Shorthorns-as it is at the
moment. Our subsidized governmental schemes of aidling live stock improvement are doing great rate pedigree stock and selling off their grade sturt,
which is commanding tremendous prices in the pulliit to the American without first of all going to give in to the American without first of all rousing his own
Shorthorn Society out of its slumbers, and then very
likely acting on his own initiative in the
should not be surprised if an International Shortare a few breaders who have got their heads tore and have "selected". an organizer already. He is a first-class salesman, one who knows where the "goods"
are and can get them delivered.

> The Dairy Shorthorn Question.

I must say I was rather startled to read the
editorial comments in the Farmer's Advocate regardeditorial comments in the Farmer's Advocate regarding the possibility of converting the dual-purpose,
or dairy Shorthorn into a red and white Holstein, or a mere, milkmaking machine. We are not going do not We are not Record Gone Mad yet. We of stunts. We are quite satisfied with the linds that the Shorthorn will milk out better than breeds, and can be converted into beef quicker mast any other breed. There is no need for Canadians dual-purpose ane and or breakers upon which the men here have a clearly defined object bur leading They are breeding dual-purpose cattle and not merely. dairy cattle. Over here we know perfectly well the quietly but surely on the perfection of the dual. purpose, but you can take it from me they have not yet seen any good to be got out of a lot of records
which can be twisted into any old shape. Still the Farmer's Advocate's, note of has not been lost upon the Dairy Shorthorn Association in England. It is composed of a body of men who are not likely to be led away by Records either to lose the dairy Shorthorn's true character and convert her into

## hank of hair, and bag of bones.

That time is a long way off, yet.
|Note-Of course our cautioning re going too far with milk records was particularly for Canadian breeder

## THE FARM.

What the Women of England Are Doing.

Those soldier men, fighting for King and country he world over, who in time of peace belonged to the countryside and its industries, will be glad to know those left behind to win from the land the precious and bounteous harvests which Providence has given Britain this summer.
As I write, scenes are now being witnessed in the harvest fields the like of which have not been seen in some parts for centuries. They recall the days when everybody used to turn out to gather in the
ripened corn. Womenfolk and school children are helping the farmers with a voluntary goodwill that shows the spirit of the old race predominant and determined. True, the Army Council decided to release
27,000 soldiers to assist with the harvest 27,000 soldiers to assist with the harvest, but it was recognized from the outset that the number of soldiers
released represented only a small fraction of the number of men normally employed in the fields at this time On farms in the Eastern Counties of England mangel hoeing, weeding, hedge clipping, cleanin ditches, making hay, and, of course, at all phases of dairy work. Many farmers in the South of England on the land, but experiences this summer show that ven women withoup previous experience, given some preliminary instruction and a fair trial, can be of great service to the farmer, and that practical proof
of their usefulness is breaking down the old prejudices. ight young women were supplied by the Birmingham eight young women were supplied by the Birmingham
Labor Exchange, it was found that at most kinds of arm work three unskilled girls can do the work of wo ordinary farm men. The girls, as beginners, ecewed fifteen shillings a week and a share of a cottage, and did their own housework and housekeeping. them, hoed, lifted and clamped potatoes, helped to thresh, helped with hay and harvest, whitewashed sheds, mended bags, harrowed before and after drilling wut thistles, and carted manure, and their employe

The daughter of a country vicar has for over a year been doing all sorts of farm work, including ploughing on a Warwick farm in a thoroughly satisfactory man women, who are housed in a cottage and do all their own cooking and housekeeping, are engaged in dairy
work, which they now do as well as trained men. A large farmer who engaged five women reports that rearing is better attended to than ever before. Anas an experiment, is now employing five. In another
case three educated girls, all between 17 and 20 , do
everything for twenty-six cows-milking,. feeding,

## Founded 1866 raion shat cir heads together I already here the "goods is <br>  <br> ato noie we the bite nux Nond bive  ed for epor delf. ject before leadin <br> They also harrow, plough on light land, and use the <br> Women of the industrial and of the well-educated classes have passed through the County Training that farmers prefer the latter class, although all those placed have given satisfaction, Most farmer work. Instances have occurred, however, where girl who have a knowledge of horses have at once, by the own desire, been put to horse work. There is ample has been readily followed in the districts where the are placed. One farmer engaged a girl to work horses with his daughter. He had no women at work hrior to this arrangement. Within two weeks he had prior to this arrangement. Within two weeks he had ten women at work besides his daughter and the girl rom the training centre. so far as prejudice was concerned, yet the example set has been followed in a most surprising manner set has been forlowed in a most

 and not meremerfectly well th
erts are workin n me
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Shorthorn Ased of a body of Not bis

AlbION.
going too far Canadian breeders

## THE FARMER'S ADVOCATE.

## Harvesting Storing and Marketing <br> Harvesting, Storing and Marketing

## Harvesting the potato crop in Ontario usually

 commences the last week in September and may conweather. Dry weather and dry ground are essential to storing and marketing the tubers in a clean condiion. Late varieties of potatoes are mostly matured by this time, and if not, further growth is stoppedby frosts which destroy the vines. The tubers may be left in the soil until the frosts are severe enough to
freeze the ground an inch or two, but it is better reeze the ground an inch or two, but it is better
to run no risk. The crop should all be harvested to run no risk. The crop should all be harvested
before there is danger of the weather becoming cold before there is ind there is no disease in the crop the sooner
and wate dug after the stalks die the better. they are dug after the stalks die the better

Where potatoes have been killed by the late blight, rot usually starts as soon as conditions are favorable.
For this reason a diseased crop is better left in the ground as long as weather conditions permit, as the
tubers which are diseased will usually show of rot before they have to be taken up on account of frost. Then, only the sound tubers need be handled. cellars as soon as the tops die, the disease will be cellars as soon as the tops die, the disease will be may rot from contact with those diseased. As soon
as dug the potatoes should be placed in a cool, wellas dug the potatoes should be placed in a cool, well-
ventilated place. The potatoes should be allowed to dry somewhat
after being dug, before picking them up, as less soil will stick to them, and they will market or go in the cellar in a cleaner and more attractive condition.
However, they should not be left lying in the sun too However, they should not be left lying in the sun too
long, as there is a tendency for them to take on an undesirable green tinge.

Digging the Crop.
is grown the tubers are lifted with area of potatoes The ordinary plow brings the tubers to the surface and a fork or potato hook is used to loosen them from the the place of storage. By this method a number to potatoes are damaged by being cut with the plow.
However, on a dry, heavy soil where only a few potatoes are grown plowing them out is possibly the potatoes are dug with the fork. A A many with the ordinary fork usually digs two rows, placing the tubers in one row to facilitate gathering. A man can dig
one-half acre in a day and leave them free from injury, but it would take ton ling tor any other method creage if this method was resorted to. store a large the potato digger where large acreages are grown give good satisfaction. A large, pointed share goes lever at the hand of the driver. The potatoes are he dirt to shake through. At the back of the machine o one side, leaving the tubers comparatively tops They are then picked into a receptacle of some
description and emptied into a wagon box, bags or rates. Digging machines usually require four, horses it inclined to be hard. On sandy soil one team may be
sufficient if they are wire basket, commonly illustration shows a half bushel very satisfactorymonly used when picking, which is
vollo allows a considerable amount of bushel of potatoes is found to crate which holds hauling the crop from the field to storage. It is more and 14 inches wide and 18 inches long. When made and another placed may be placed on end inside another three crates in the space of two. This is very handy
in hauling them to the field or in storing them from slats reason to another. These crates can be made from
sipped out of two-inch dry elm or basswood quarter inch thick. The be two inches wide and onerom a 2 by 2 -inch piece ripped diagonally
acre for digging and picking the about $\$ 8.00$ per figuring at 20 cents per hour tor potatoes, that is cents per hour for a horse. Plowing out the potat 10 and picking them up will cost, figuring the labor at the ame price as above, about $\$ 12.00$ per acre. These foures show that for the man growing several acres A common practice in potato-growing districts time everal neighbors to co-operate in harvesting the crop In this way sufficient pickers are obtained to enable the digger to be kept going continually from morning to storage. There is no loss of time with the tubers or teams. There is no loss of time with either men


Digging Potatoes by Machinery
Taking one year with another, there is usually as possible sellimg the potatoes as soon after digging destroys many of the potatoes in storage the disease price is high, but frost and disease must be risked through the winter, and there is also the extra work of storing and again taking the potatoes from storage
to market. Potatoes will shrink storage, which also lessens their value. The greatest shrinkage takes place the first two weeks after digging, and again the spring.

## Requirements for Storage

When potatoes are stored they should be put in a
, cool, well-ventilated, dark place. The cellar


Crates and Wire Pail.
under the house or the basement of the barn is the equirements. Great loss occurs every year from potatoes stored while wet, in warm, poorly ventilated for development of disease if they are in any way
infected. Where potatoes are stored in cellars, an effort should be made to have a circulation of air around them. A temporary foor of slats should be put down about six inches above the permanent from cither wall. This gives a free circulation around beneath and over the potatoes. If the pile is large,
square ventilators made of slats and running from six or eight feet.
top to bottom of the bin should be placed every
sprouting storage place should be dark to prevent sprouting, and the best temperature is around 35
degrees. The cooler potatoes are kept withou degrees. The cooler potatoes are kept without freezing
the better. The value of the tuber for eating as well as for seed purposes, is lessened by sprouting, and when the potatoes sprout there is a shrinkage in weight. Much can be done towards keeping the temperature closed in the daytime during the fall at night and the spring it should be kept closed as late as practicable. A pit should only be opened at as end to see if the tubers are all right, until shipping
time, or when the seed is regured time, or when the seed is required for planting. When putting the pota-
toes in storage the earth
should toes in storage the earth
should be removed as much
as possible withe as possible without bruising the tubers. This may be
done by allowing them to done by allowing them to
pass over a long slat screen. Frequently the storage is filled from a hole in the top, and the crates or sacks are dumped directly down these stances inder such circumpasses in with the tuber In filling a large bin or pit each day's picking should be spread over the entire space
as this permits the potatoes
to cool better than if they are left in a pile.

## Pitting The Tubers

storing ordinary style of pit is frequently used fo potatoes are put in a pile about four feet wide at the made any lengtherg the pit may be hundred to When the crop is stored in one continels is preferable danger of greater loss from disease, frost or heating the ground is hi a number of small pits. Where soil to the depth of a furrow, as this growers remove the banking up. A layer of straw is placed on the tubers together with a light covering of earth as soon as the tubers are pitted. This permits of ventilation and prevents injury from early frosts. When the weather
becomes cold, earth must be added to of a foot or even greater, if the pit is in thickness place. When the, weather becomes severe it may be necessary to add some strawy manure to this. A tile should be placed at each end for ventilation. The frost must be kept from the potatoes, but at the lowering a thermometer down the ventilator By temperature may be ascertained
Where there is indic ging time, it is a good plan of rot or disease at digif one has storage room in the cellar. A potatoes, even proaches will prevent frost injury, and as wintering proaches, the sound tubers may be removed to the
basement. from four dig a pit out of the side of a sand bank from four to five feet deep, depending on the height
of the bank above the high-water level.
are used are used on sides, top or bottom. The pit is filled with potatoes to about six inches below the surface. A thick layer of straw and 10 to 12 inches of earth are placed on top. Potatoes must be dry when placed and loss by rotting.

## Next Year's Seed

carefully potatoces for planting next spring should be productive hills. Only tubers free from any most to avoid bruising, and the These should be handled ideal conditions of storage, regarding ventilation temperature, and moisture. Increased y yelds will
be obtained by more care being taken in the otorage
of the seed as well as in the selection and cultivation

## Destroy Diseased Tubers.

The late blight possibly causés heavier loss in potato fields than any other disease. As a rule the frected tubers either ine the or show indications


Late|Blight Rot.

## From Pennsvlvania State College Bulletin.

to the propagation of the disease in storage. Great care should be taken when putting potatoes in storage to discard all tubers showing any sign of the disease. Conditions in basements or pits are often favorable to give the disease a start. Keep all suspicious looking tubers by themselves. Sometimes the potatoes look all right on the surface, but have a brown, watery discoloration extending in from the skin.
Common potato scab may not spread in storage,
but care should be taken not to feed scabby potatoes but care should be taken not to feed scabby potatoes
to animals without cooking thern, if the manure is to be spread on land where potatoes are to be grown in the near future. The disease organism survives the process of digestion and may be carried back to he field in the manure.
gainst in this country. While it is should be guarded it has not as yet gained a very strong foothold on this side of the Atlantic. It somewhat resembles common scab at first glance, but on looking close will be found that the scab spots start underneath the skin like blisters instead of on the surface. These dark, powdery mass.
Potato canker or wart disease if neglected may spread over a farm and render the soil unfit for potato
growing for several years. While this disease is not
common, every precaution should be taken to keep it out of Canadian fields. Warts or excrescences appear until a large, spongy, brown scab is formed. In its advanced stage the disease is not difficult to identify, although tubers only slightly diseased might easily be overlooked and be a source of infection if planted. Potatoes sometimes commence to rot about digging time or in storage without any appreciable cause.
However, there is usually some disease associated with it, and a warm, moist storage-house is conducive to its spread. Potato growers must wage a continual fight against disease destroying their crops.

## Marketing the Crop

With potatoes, perhaps, more than any other With potatoes, perhaps, more than any other
crop the supply generally rules the price, as the de-
mand is usually about normal. If for some reason crop the supply generally rules the price, as the dethere is a scarcity, the price soars and vice versa.
However, regardless of the supply there are some However, regardless of the supply there are some
districts that secure better prices than others, the reason being that all growers in the community have size, shape and color, on the market. There are far


Wart Disease or Canker on Stem and Tuber
too many varieties being grown. In some districts no two growers have the same variety, consequently when loading a car red and white, long, 'round or which gives a motley appearance, detrimental to the rade. The mixed cars are disliked by the dealers, and the producer suffers to the extent of ten cents. or more per bag.


## Powdery Scab.

Co-operation in the truest sense of the word is required. Have the community become noted for one variety of potatoes, then produce a good sample. This can be done by hand, by throwing out all small, poorly shaped or diseased tubers when filling the bags. Uniformity improves the appearance and incidentally the price. There are sorting machines on the market which grade the potatoes to different sizes, by the tubers passing over various sized screens.
districts where the growers held together. There is always opposition on the start, but if all interested support their organization and market only firstclass produce, success is usually the result. With a good, reliable business man as manager, and sufficient it seems reasonable that an organization of men with the same object in view should market their crop to
better advantage than disinterested dealers could better advantage than disinterested dealers could market mixed lots. The standard of quality must be high in order to satisfy customers and secure their
trade in the future.

## Canada’s Young Farmers and Future Leaders.

Prepare for a Winter with the Stock.
The competition for boys and young farmers which recently brought so many good articles before the readers of this department of "The Farmer's Advocate" proved one thing, that farm boys can do things well and can describe them intelligently for the help of other boys and older men. Particularly were we impressed with the results which the boys obtained with live stock and poultry, and these results should stimulate interest amongst other boys and encourage them to begin, this winter to see what they can do as compared with their fathers' efforts in feeding some farm live stock. As a general thing, "Dad" is not a bad sort of a fellow if he is taken rightly. True it is that some boys find difficulty in getting to the point of ownership of any of the farm stock, and fathers who are not willing to give their boys a chance to have something their very own, and to feed, care for and pocket the proceeds rom it, are standing in their own light. Nothing will encourage the boy more to do better all-round work on the farm than to give him a chance to show what he can do in the way of caring for some of his own live stock. A pig, a sheep, a calf or some poultry, is a good start.
The first difficulty the boy will run against, who has never had anything his own but who would like to try it this year, will be to get the stock. The first sep should be a discussion with his father to find out Whether or not arrangements can be made, and if so, place to get the stock is to select the pig, or sheep or calf, or whatever may be decided upon from some best, not necessarily the very best, but an individual
above the average of the lot; in fact, the father should be willing and anxious to give the boy the best in the pen. It would be wise and good policy to get the aid
of "Dad" in selecting the animal with which the ex periment is to be tried. If no suitable animal is to be to buy one. The boy may be interested in a get the money a pure-bred sheep, or some pure-bred poultry and if so he should get encouragement from his father and his help in the purchase of the same and in the feeding paid a fair thould be better in most cases if the boy paid a fair price, even though the pig were taken from not the money, that the purchase price be returned to the father when the pig was disposed of for pork By buying the pig, or the lamb, or whatever it may be and feeding it through to the finished product, the boy has his operations on a business basis from start to the boy to have some breeding stock of his own policy for are speaking now particularly of stock to feed through the winter, and not of breeding stock, a start in which the father should give the lad gratis, or we should not say gratis, but rather in consideration of his value on producing a stockman than by interesting the lad early in life.
We will assume, then, that no difficulty is experienced Now, what about the feed? Feed is going to be scarce this winter and the price will be high. To make the experiment a strictly business proposition all feed should place to get it is from father's the handiest and best carefully weighed ont and paid for at a fair mould be price at the barn. This will mean a little cheaper feed than when it is bought elsewhere, and the father will get the same price for it as if he sold it to someone the boy thinks he can do better with some, or that feed, he should borrow the better with some purchased on hand from his father, to be paid back when the animal being fed is disposed of. It will be seen that
it will be necessary to keep strict account of the trans action from the price of the animal in the first place to the cost of all feeds purchased and to the returns when in farm bookkeeping.
We have the animals and the feed. The question, then, foremost in the mind of the boy is how to feedhow much and how often? Here again it is wise to not agree with, the inder man, little things the boy may extent, map out his own plans of feeding. Whether it is done two, three or four times per day, regularity must not be overlooked. Besides, all feed troughs or mangers should be kept scrupulously clean, and watched carellily to see that the animal is getting gust what it will clean up, and no more. Constant attention will bo practiced, whatever it may be. When it comes to selling, it would be wise to have the pig or the fat lamb or the fat calf go with some that are being sold from father's pen, hut if the boy is a little better finished than the others, he should insist upon a premium in price. Always sell by the pound, as it is the fairest for both seller and buyer
Provided the weigh scales are correct (and here we might mention that it is well in the process of feeding to weigh at stated periods, to see just how the anima is doing) both parties to the transaction will get exactly what is coming to them. Watch the market reports
carefully, and be sure to get all the animal is worth The boy should make his own bargain, but, of course it is no harm to get a hint or two from his father, who has had much more experience. Let the boy take all the responsibility in connection with the entire feeding and sale of the stock, and after the deal has been put be straightened up, the stock paid for the feed totalled up and settled for, and all expenses deducted from the sale price. All profits, of course, should go to the boy, and he should be encouraged to use them in a further - After all is over nature. - After all is over, write. the matter up in a short

## Automobiles, Farm Machinery and Farm Motors.

## The Fair and the Motor.

The fall fairs are proving a valuable educational medium in more respects than one. Perhaps the biggest recognition they have given to any industry
of recent development, has been accorded to the automobile trade. This compliment is based upon two convictions-one, that the automobile has passed the pleasure stage and the realm of restricter popularity, and the other that the
agriculturist of the future cannot. talk about a agriculturist of the future cannot talk about a
well-equipped farmstead unless his inventory shows well-equipper carmstead ume standard make. It has well repaid the motor owner to visit a large ex
hibition, because under the most favorable cir cumstances he can acquaint himself with those problems of mechanical construction which hav
always created the greatest wonderment. always created the greatest
instance, the visderment. Fo
the of a motor exposed in such a shape that the oiling of the cars does not prevent an accurate conception
of its functions. At the Toronto Fair, several manufacturers cut away the housing of the different ings of the little ring gear, the big ring gear, and the central movable gears, which allow the back wheels to receive power in inverse ratio to the
amount of resistance; in other words, the value of the differential which allows one wheel to go
slower than another around a corner, was exemplislower than another around a corner, was exempli-
fied so clearly that anyone could carry away an accurate idea. Other manufacturers cut out a
part of a cylinder head, and by operating the engine

## THE DAIRY.

## Cream Cooling.

## Necessary Features of Satisfactory Croam-Cooling

 Tanks.The prime purpose of the cooling tank is to provide suitable, practical and convenient facilities whereby the cream may be set in cool water. Water is the heapest, simplest and most efficient cooling medium vailable on the average farm.
Size of Tank. - Since the cream of several separations is kept on the farm, the cooling tank should be of sufficient size to accommodate at least two cans, one to be used for the freshly separated, warn cream, and the other for the cooled cream of previous separations, This eliminates the mixing of warm cream with cold cream, which is a practice which cannot be too strongly causing an isforior product wher enough so that the water on the outside of the cans of the can reaches Insulation.-The cream cooling tank is of value not only in the prompt cooling of the warm cream,
but it makes possible also to keep the cream cool until it leaves the farm in summer and to prevent its freezing
in winter. Its efficiency therefore is greatly enhanced in winter. Its efficiency therefore is greatly enhanced
by proper insulation, although a non-insulated tank is by proper insulation, although a non-insulated tank is
a great deal better than none. The lining of the tank with special insulating material such as corkboard, hair,
 strated, however, by G. L. McKay and F. W. Bousk of the American Association of Creamery Butter Manuboards is practically to a one-inch corkboard, and answers therefore all practical purposes.
Unless the
clean room, protected from extremes of heat and cold
and reserved and reserved for the storing of cream exclusively, it is
essential that it be equipped with a tioht-fitting essential that it be equipped with a tight-fitting cover
This will add to its efficiency in controling the temper ture and it will protect the cream against contaminatio with diverse impurities and odors. ${ }_{\text {FACLITIES }}$ TO CHANE WATER - The cooling even in the most perfectly insulated cooling tank will because of the atmospheric heant of the cream, partly because it absorbs the heat from the warm, fresh cream It is therefore important to change this water as ofte as may be necessary in order to keep the cream reason-
ably cool at all times. In properly constructed cooling is usually sufficient. The cooling tank should therefore have a drain that will facilitate the prompt remore of the warm water, while the fresh, cool water runs in
Time, labor and water may be economized if this drain is connected with the stock watering trough used on
the farm; thus the coling the farm; thus the cooling water, after it has served
its purpose in cooling the cream is run into the stock trough, where it automatically takes care of the water
supply of the stock. Inasmuch as the stock is watered at least twice in twenty-four hours, the changing of
the water in the cooling tank every twelve hours calls
for for no labor additional to that required anyway for the
watering of the stock. If running water is available,
valves electricity they revealed the system by whic combustion of gas. $\quad \begin{gathered}\text { developed } \\ \text { Clutches }\end{gathered}$ power through the and the agriculturist took away with him mor than he had been multiple disks and cone type than he had been able to gather from reams of in close proximity to your home, we would strongl recommend your attending the fair in question Before doing so, it would be well to review your season's running and to jot down a memorand of any mistakes you have made, and also a not circumstances. You will find the salesmen and expert mechanics willing and ready at all times to answer questions.
1917 There are not many mechanical changes in the the two-units. System of the larger cars have adopte the two-unit system of ignition, starting and lighting
This idea is mainly attributed to the fact thater motor, separate from the generator, presents sibilities where machines of heavy horse power
are used. Practically only one car is devoid of a are used. Practically only one car is devoid of a
self starter, but this model possesses other outself starter, but this model possesses other out
standing features that seem to compensate for the standing features that seem to compensate for the
absence of one convenience. Electric-light systems are universal. Gas tanks are being moved to the rear in many designs, that previously housed them under the cowl or front seat. The closed bodie also show some interesting changes of minor importance. The door by the wheel, locks from the miside and the opposite door, from the outside. Dome
lights give a dull radiance of extreme beauty Slip
or the water is pumped into an elevated tank, as is the engines, the changing of the water in the cooling tank s further simplified by connecting the intake of the torage tan

Spring and Well Water.
On farms with running springs the cooling and torage of cream may be ream setting th against the tipping of the cans, especially those only partly filled, and to insure proper immersion of the cans so that the level of the water surrounding the can at least as high as that of. the cream in the cans, an ccommodate the cans. In this set into the spring to is allowed to continuously run through the box and to overflow at the proper level.
Dug wells with cold water may also serve as natural ooling and storing places for cream. The cans may ceadily be lowered into such wells by a windlass or on ropes with pulleys. Dry wells and pits, although cool previously stated, the mere exposure of the cream to cool air does not cool the cream rapidly enough to
prevent fermentations. Then, a a ain such pits are prevent fermentations. Then, again, such pits are usually damp and are prone to contain stale air, and
often foul odors and gases, which may be absorbed by he cream, and which are fayorable for contamination with and growth of molds and other undesirable microorganisms. Dry wells and pits are very similar in their effect on cream as cellars. Their chilly atmosphere is due to dampness rather than to low temperature, and their standard of sanitation is at best questionable. ounning springs and dug wells with cold water on the cream. These natural facilities are available on many
farms, but are often not utilized. If intelligently used, ose procticuly n , expense to the farmer, quite as effectively as especially onstructed cooling tanks.

## What Experiments Prove

Quality is the fundamental factor that controls the price at which butter sells.
2. The quality of butter on the market depends more on the quality of the cream from which it is made acture and transportation 3. In order that the cream may arrive at the
creamery in good condition, it must be cooled promptly and be kept cool until it leaves the farm. 4. Running springs and cold water wells serve as
eefficient natural facilities for cooling cream on the former 5. In the absence of these natural facilities properl constructed cream cooling tanks should be used. These may readily be constructed by the cream producers or can be purchased ready made and at low cost.
6. By pumping all water used for watering the stock
through the cream cooling tank, the use of the cooling volves practically no extra labor 7. The proper use of the cream cooling tank and keeping separate the warm cream from the cold cream
retards the souring of the cream, checks undesirable fermentations, eliminates the animal heat from the
cream and protects it from contamination with dust, cream and protects it from contamination with dust, 8. In order to secure the best results from the use of the cooling tank, all utensils, cans, separators, strain-
ers, stirrers, dippers, and the tank itself should be kept thoroughly clean.
covers are being used in exquisite taste. Tire covers will soon be extremely common, for they not only tha to the the beauty of the automobile but protect and particularly from the heat of the sun. Interion seat arrangements in touring cars and roadsters show a number of innovations. The clover leaf design has become popular. Some autos have divided front seats, and the seven passenger models have when auxiliary seats attached in such a shape, that out of place. 1917 will not see a car with a body of rough, angular shape. The stream-line effect, even in the lowest-priced models, has come to stay, Of signal, door hinges, or odd accessories, but waraing generally, the trend is distinctly and decidedly towards smooth construction. The visitor at the fair will also notice that celluar radiators are winning the past and that easily manipuded are a thing or When the automobile was first introduced owners used it on fine summer days only, later on the gradually extended the field of its infuence to a for side curtans that would early days of sprino and the lote dove of foll mis be included. Now the closed body has been introduced, and in practically every instance it is free of squeako and rattles so that without inconvenience or annoyance,
machine.

## HORTICULTURE.

## À Light Fruit Crop.

Since last report of the Department of Agriculture Fruit Branch was published, there have been some changes in the apple situation. Considerable fruit has fallen in many parts of Ontario, due to prolonged dry weather. This has been particularly noticeable in the expected. Much of the fruit there will be of small been
exies and only about 20 per cent. of No. 1 quality. Ele where in Ontario the dry, weather did not seriously fifect the apple crop, which had already been very The general situation in g and apple scab. Ontario can be obtained from the following Norther Norfolk County - 60 per cent. of standard crop and 15 ner cent. No per cent Bay - 60 per cent. of standard crop and Burlington- 40 per cent. of standard crop and 15 Niagara District-40 per cent. of standard crop Lambton District- 45 per cent. of standard crop Lambton District-4. per Western Ontario (inland)- 50 per cent. of standard East of per cent. No. will nt. of No. 1 fruit, and the crop is very light.
Reports from the Annapolis valley remain favorable a fruit is generally clean, and there will be a fair crop. olumbia, and the prospects is reported from British

Peaches are estimated at from 50 to 60 per cent. of Thal crop

號 light, as is also the pear
here will be a medium to full crop of grapes.

## Fall Selection of Potatoes Pays.

It pays to select next year's seed potato tuber
from the field at digging time better than to them from the a digsing time, better than to select seed selection is more easily taken care of now thy when the potatoes. are in the bin

At digging time one can get a good idea as to the type and uniformity of tubers produced under individual vines which cannot be obtained after the crop has been producing several uniform, average-sized true-to-type tubers. Such selection can not be practiced when the seed is selected out of the bin.
 rot, back leg rot and brown ring discoloration due to
wilt should be discarded. To avoid the possibility of getting tubers infected with black leg rot or brown ring discoloration, the field should be thoroughly inspected kept from infected have dried up. Seed should not be with what tubers have been formed on them, ought to be destroyed.
Plants affected with leaf roll, curly dwarf and mosaic
should be destroyed and no should be destroyed and no tubers saved from them.
Although these diseases do not cruse on the tubers, the use of infected seed will reduce the yield and finally cause the potatoes to "run out.
-A. G. Tolans, University Farm, St. Paul.

More on the British Columbia Fruit Situation
Editor The Farmir's Advocate
There seemed to be a taken-for-granted feeling at
convention of the British Columbia Fruit Growers the convention or the tern the solution of their marketing problems was going to be had largely through thorough problems was going te ard
and efcicint advertising arrangements. The President,
and Mr. Winslow, though, and some of the other and Mr. Winslow, though, and some of the other
speakers mentioned other phases of the marketing
problems that will not be reached by advertising. problems that will not be reached by advertising.

The serious loss to the growers of the privilege of announced. Some saw-off arrangement that the express companies get at by juggling the rates was made. As a compensation for this loss, they reduced the rates by

Mr. Abbott, the Coast Markets' Commissioner,
spoke on the coast markets and also on the consumer's spoke on the coast markets and also on the consumer's
side of the question of fruit. Touching on market troubles, he was very emphatic on the point that there is a great lack of information from the producer's end great extent with a lack of organization among the growers down at the coast, and this no doubt led to
this statement of lack of information from the growers as to the quantity he might expect. Then, too, , rowers
inland, along the main line of the C.P.R. and in the Okanagan, who would not unite with organizations and attempted to market for themselves, could give no reports of their expected crops or their plans nor can they expect to receive reports nor suggestions from the
various markets. A case where the independence of the farmers when carried to extremes works for their downfall. He stated that often when the season is well advanced the coast markets do not know whether they are to
get fruit and produce at all or whether it is going to get fruit and produce at all or whether it is going to
land on them in carload lots. He asked the producers various markets criticized missioners were not out with one idea only-that of criticizing-but they left that largely to the dealers.
No one can know what impressions his goods are making No one can know what impressions his goods are making by someone on the market, where they fall down in the consumer's eye. British Columbia growers are too far from their markets to be able, in most cases, to follow their goods to the retailers and consumers, and have to where they are behind in giving a good service and full value for the consumer's mone
He said, further, that up to now the coast people had been buying largely United States foreign stuff,
but British Columbia and eastern growers are but British Columbia and eastern growers are now and they can, they must ship in only No. 1 stuff. The mainland (lands about Vancouver not on Vancouve Island) has enough of its left-over and seconds to supply Hence, the inland places should ship on on only their stuff. When the increased production, which the mates of the other speakers warned was coming, made
itself evident, the inland places are going to need all itself evident, the inland places are going to need all
Vancouver and the coast to market the increase. It Vancouver and the coast to market the increase. It
is absurd to expect that any district can work up these markets in one year. It takes time to get acquainted seen the brand on the market and is familiar with it from year to year. He gave a strong warning against
shipping to the coast markets, immature stuff in to get the early markets, and the attempt to avoid loss from over ripening before a sale is made. One thing was certain in his estimation-that no fruit from or grower could hope to make an impression at the coast
unless he could equal or surpass the Western St grading. These egrowers kept the various sizes of fruits solor and shape to such an extent that it was a, perfected science among packers, and any one competing with
them must beat or equal them at their own game if they hope for recognition. from British Columbia, came fromarkets' Commissioner where there has been considerable hard feeling against Canadian growers, and British Columbia growers in
particular, over the increase in tarif. The grain growers, lumbia and overlooking all the other provinces, and has made it very hard to get the same consideration for
British Columbia produr British Columbia produce on the prairies that it has
been accustomed to. He was very glad to say that the Grain Growers had a representative at the conven-
tion, and that being where he had been so impressed by the difficulties that the growers had to contend with,
that he had promised his hearty support upon lis rumn to the prairies.
He took up the advertising also, stating that the
Western States, last year, had $\$ 60,000$, while we Western States, last year, had $\$ 60,000$, while we in and effcient, and this year, if they ship only one car,
they will advertise in all the Western Provinces
Ontari, started to advertise in the Prairies in June, and wure then using half-page space in all farm papers on the
prairies. The only advertising done by British Columbiai prairies. The only advertising done by British Columbia
was on soft stuff and that largely was in the formo of
slips giving, directions on "how to preserve without using sugar.". Half a million of these had been distributed
and were eagery sought after.
spending on necessities. As a register of the degree of spending on necessities. As a register of the degree of
prosperity, he mentioned the large sales being made
by automobile factories. Last season this was not the
case. $\begin{aligned} & \text { He also stated that the quality of produce in British }\end{aligned}$ Columbia was considerably better than that of last year. Strawberries this year from British Columbia
were the best pack ever seen on the prairies, and the came largely from Gordon Head, B. C. There is a good opportunity for expansion there, and this year, he was
glad to note, that there were very few violations in pack. ive Columbia would have to get down to business in ad vertising, if she wants to hold her present standing
and work up the necessary market for her coming in and work up the n
creased production.
He spoke in such as was to be found in the Okanagan Valley, and contrasted the results of that with the condition that exists where the apple buyers worked. They were no help; they estabished nothing of permanency in the industry: He thought it was time we got working to not pay the producer, and to do that we must puil stop to the senseless competition that is bound to exist where individuals attempt to solve their own markets
single handed single handed
He had st
where the orchards on his way back from Washington, due largely to over-planting peaches, and mildew on the apples, which is bound to cause a material decrease in competition on the prairies.

Walter M. Wright.

## POULTRY.

## Preserving Eggs.

Recommendations for preserving eggs by the water glass method.
daily from clean.- The eggs should be collected daily from clean nests only, and from healthy flocks. eliminate the possibilite infertile eggs and thereby and subseque possilics baked, cracked the the case should old, sunare usually detected by gently tapping the Cracks candling them.
Container.-Generally, glazed earthenware jars, galvanized tubs or buckets and wooden tubs or kegs are used. In case of wooden receptacles it is
desirable to let them stand several days full of water then empty and scald before using

A gallon stone jar will hold 40 average eggs. One pint of water glass syrup mixed with 10 pints of water will cover 120 eggs in a three gallon stone jar. been boter.-Mix the water glass with water that has at all times in order to prevent evaporation. Whed cold it is ready for use. Water Glass.- Water glass can be purchased either in liquid or dry form. Most drug stores, however, Strength of Solution.-Different proportions of but the higher strengths as for example: one pint
of water glass to 9 or 10 pints of water have better resilts Uses. -gggs preserved in water glass can be used and, if not kept too long, can be used for cormerking, icings, angel cake, ctc, A pin hole opening made,
on the blunt end of of the shell the eggs without any danger of their bursting to boil ave packed eggs in water large number of persons
 Exp. Slation, Washington.

## The Moulting Season

The fall of the year is the natural moulting season.
A hen's ability as a winter cgg producer depends largely on how she passes this moulting periopld
While the moulting period can be forced and shortened by the use of stimulants, it is usually
best to allow it to take its general rule the hens that moult late and quick are
the highest producers and the early moulter is
$\qquad$
$\qquad$
$\qquad$ body weight, but these grains alone are notain the
The fowls need some real feather makitint wheat, liran, ground oats or or barley, sllorts and meat scrap, will make a very good supplement to the meat
ration. The addition of one hall part each of oil
mueal and sunflower seed to this mash will sit

## FARM BULLETIN.

## Another Book

by peter mcarthur.
A book does not always have the effect intended
by the author. Some months after the pulilater Upton Sinclair's book, "The Jungle," in which of exposed the revolting conditions in the Chicago Stock Yards and aroused a wave of disgust that reduced the amazed young author exclaimed pathetically, "I thought I was appealing to the int the people, and all I did was to turn their stomach of an an appeal to my inteligence hy advising me to met a copy of Gustavus Myers' startling book, "The History
of Canadian Wealth" (Albert Britnell, Toronto evidently thought it would rouse me to, a fury of indig.
nation and make me rage against the rich and nation and make me rage against the rich and powerful. The fina effect of reading the book was just the opposite, mind that is serene-almost exalted. Instead of reducing me to a state of hopelessness by its sordid record corruption, and all uncleanness, it flung my thoughs, upward, even as a character in " "Paradise Lost" - whi a comparison-was fung, when not want to institute
"The strong rebuf of some tumultous cloud, As many miles aloft.'
This book is certainly "instinct with fire and nitre," generally scandalous character, but it caused a revulsion of feeling such as the author would hardly expect. orrupt-to the decent, I merrupt - to the decent, plain people of Canada whom
I meet in my everyday life, and I exulted in the thought that this young nation has a foundation of houngty and uprightness that is destined to withstand and dations of Canada were laid by the "wise. The founwho cleared away the wilderness, and the puor men" wise, poor men who are to-day doing the work of the country will slowly build Canada into what it the meant to be hy the God of nations. The progress
that has been made already in this. wonderful work is something that might well rouse us to song.

The History of Canadian Wealth is about the most
pitiless exposure to which any pitiless exposure to which any country was ever sub-
jected. Backing up his statements with documentary evidence, Mr Myers makes revelations that are enough to make any Canadian squirm. Honored names are
handled in a way that must handled in a way that must be hard for their respectable
descendants to endure. Few of the older Canadian fortunes or public men Fscape insmivched Canadian told that he has a second volume written but not published, that brirgs the story right up to the minute and turns the light on the pleasant Captains of Industry a man is likely to meet when visiting the clubs in Toronto Mr. Myers has undertaken, and, such patic service that it well. But, in my present mood, I am not sure that it is very necessary. Of course, it is a good thing for
us to learn how wealth is being organized and centralized into a few hands, and also to tearn how little the men power. But I doubt if it the country deserve their in direct fight that Canada is to win her complete greater certainty by stimulating the we will win with the country rather sthan by fighting good we find in although he did not set out to do this, Mr. Myers really proves it. While men in place and power were robbing the public domain and oppressing the people, the pcople went on with their work, and, in spite of every of pleasant homes and boundless opportunities. While could survive such looting as Canada has endured. The emigrants who were dumped indo the wilderness
by the heartless selfishness of those by the heartless selfishness of those who wanted to make wider deer parks, or to rid the country of paupers
-were forced by their necessities to make homes for themselves, and now their descendants are as prosperous and as highly placed in the servicicoo the country as
the descendants of those who claimed thei aristor as birth as an excuse for receiving favors from self-seekting governors and governments. The broken men of the Antacus, their strength wasth renewed and malt, and like While those who sought to acquire wealth were stooping were struggling to ge homes went on clearing the
land, fencing, draining, tilling building good buiddings, aising flocks, and herds, and doing their humble tasks.
And now look at the , And now look at the results. Although the farmers to complain of, and must keep on figh mantiny for ther
rishts, the fact remains that their condition is better than that of the common people of any orter country
in the world, and even of any other part of the Empire. are all educated and their chince and opinion. The
highen may aspire to the inghest positions in the land. While we have much to
complain of, we have much to make us rejoice, for no aristocracy or moneyed power has managed to get a,
strangle hold on us as they did in the older countries,

And if we chose to exert the powers that we possess, is humanly possible. We do not enjoy this power and freedom because our liberties were not attacked. Read Mr. Myers' book, and you will find that in few countries were they so ruthlessly attacked. But such was the
vitality of the common people working in a new land vitality of the common people working in a new land The opply curse we lacked was the curse of militarism, and right there is a point to which we must give serious thought to-day. In doing our part to defend Canada and the Empire, we are running the danger of introducing militarism-the one thing that might possibly
make the oppressors enduringly powerful. That danger make the oppressors endur

Abraham Lincoln said: "God mus.t
people, He made so many of them."

## Big Crowds, Good Weather, and High-quality Stock at

As is usual at the Canadian National, the larges crowd of both country and city people attended during
the second week of the Show, which for the most part was favored by the best of weather. Larger crowds wathered around the stocok-judging ring than is usually
the case, which goes to show that there is a very keen nterest in tive stock at the present time, and that lose reall yitereste at the Fair, watching the placing apart of their time at the Fair, watching the placing
of the awards on their favorite breed. , There was scarcely as much stock to be judged as was the case last year, but the quality of the entry left little to
citicicie, and all went away feeling that from a live tock viewpoint the Show was entiriely successful number of entries as usual, but the quality was never better. The same may be said in regard to beef cattle. tockmen generally had a good year at the Fair, making umerous saes. In fact, they made a record in this
tegard. The fruit and poultry show was fair and of Lood quality. LIGHT HORSES.
Numerically the horse department was not up to easons is apparent. The difficulties experienced in
bringing bringing animals across the Atlantic and the sacracity
of men, combined to curtail the exhibit from the view
 animals were shown, and these, with those bered in
anada or mported during how worth seeing: HACKNEYS. -If ring. side spectators cannot become
enthisasticover a good exhibition of Hackney per ormance they are not admirers of the horse per for
his breed can arouse a cosmopolitan audience when other clases of live stock fail. The Hackney has
long been bred to " "play to the gallery" or attract attention to himself phile at his work, whatever it might be True to the best traditions of the breed
 action, a goodly number of onlookers who gathered
at the rinks-ide. The aged-stallion class had much the same com-
plexion ass it showed last wear with the oorses standing first, second, and third. Colorito Which has been obliged to work his way up from the
ranks, so to speak, at the Canadian National was first and champion in in 1915, and the same tale must


 The female classes were better filled than were
those for stallions. Model's Oueen, a frmly-coulled mare of true Hackney type and a a straight, trappp
mover, won the three-year-old filly ylass from Minnie Derwent, a beautifull mare but not so sood a mover st her competitor. The winer in this ocontest mener
through all subsecuent contests until she was declared
 with 'ood oontormatrineess, a promising young mare
can bo devermation and a quality of action that admirer. . Was a close fnisht between Brookfield Queen
and here wainty Soarta forsh and Dainty Spartan for honors in ithe yearliligueny fily
class. The latter won, but by small odds, for both
ower were good movers and were well put onds, tor both
which yeld-mare class called out seven choice females Onich constituted the best line-up of ot the fermed.
Only three prizes were
given, so several deserving
 iven the red ribon, Next came wild Aeprese, , wood out Grace Daura performed into thirid plan the, shatting out Grace Darling and three others, any one of which
withseman would be proud to own. Three mares
with $\operatorname{Con}$.



case of Canada, I am convinced that God loves the conmon people because they do His work-do it blindly,
blunderingly, if you will, but still they do it. For many years I have been studying the history of Canad but from another point of view. Mr. Myers has studied the rich, while I have been trying to unravel the short and simple annals of the poor. He has followed the tions, and great men while I have listened eagerly to family traditions. To-day he has assembled a mass of evidence about befouled fortunes, while I rejoice in having many tales of homely fortitude and simple
heroism. As I look at it, the fortitude developed by the pioneers is a greater asset to Canada tolay by all the fortunes of all our money barons. Through their very necessities the common people developed a
true ideal of what Canada should be, and that ideal is still our inspiration, though many of us may forget it.

And when a nation or a man has a true inspiration, it
 Sets its hard face against his fateful thought,
And brute strength, like the Gaulish conquero Hurls his huge mace into the other scale, The inspired soul but throws his patience in
And slowly that outweighs the ponderous globe.'
atience truc history of Canada is the history of a divine patience is bound to win in the end. Of course, we we may fail to powers that prey on us, but even though In spite of the day the victory is certain to-morrow one need fear for the future of Canada-if we do no lose the ideal and inspiration of our fathers. There is the only danger

## the National

West, Ont.; W. W. E. Jewell, Bowmanville, Ont.; J. F
 May, Toronto, B. Rothwell, Ottawa; G. H. Smith,
Delh, Ont.; Lieut. H. J. French, Toronto; J. M.
 Little, Sewickley, Pa. Awards.-Stallion, aged: 1, Graham Bros., of Colorito by Rosador; 2, Crow \& Murray, on Prick by Polonius; 4 , Semple on De Wilton by, on Sparta Filly, 3 years: 1 , Telfer, on Model's Queen brumlanrig Model; 2 , Tilt, on Minnie Derwent by Derwe Performer. Filly, 2 years: 1, Husband, on Brookfield Princess by Brookfield Ladide ${ }^{2}$, Jewell, on
Lilly Denmark by Royal Denmarki 3 , Tilt, on Miss Spartan by Spartan; 4, Anderson, on Play Girl by by Spartan; 2 Husband, on Brookfield Spartan Brookfield Laddie; 3, Jewell, on Terrington Dora by Terrington Cetewayo. Yeld mare: 1 , Husband, on
Princess Winyard by Warwick Model on Wild Agnes by W. P. K's Masterfield; 3 , Telfer on Princess Eudora by Vanguard; 4 , Smith, on Grace
Darling by Warwick Model. Brood mare and Darling by Warwick Model. Brood mare and
foal. 1, Gardhouse, on Whitegate Gertrude by His Majesty; 2, Jewell, on Rosaline by Ganymede; 3,
Mrimsley on Wood'Hatch Gold Flash by Evanthum Mare with two of her progeny: 1, Jewell, on Rosaline Foal of $1916: 1$, Gardhouse, on Nellie Spartan by
Spartan; ${ }_{2}$, Jewell, on Lady Jewell by Terrington Spartan; 2, Jewell, on Lady Jewell by Terrington Spartan. Champion stallion, Graham Brosh Colorito. Champion mare, Telfer, on Model's Queen Best string of five, Gardhouse, on Talke Fire Alarm Ghitegate Queen Victoria, Berkley Swell, Whitegate
Gertrude and Nellie Spartan. Best stallion and best mare, 14 hands 1 inch and under, Gardhouse on
Ponies.-By way of diversion many people like or a time, to get away from the heavy drafter and may be termed "a pocket edition" of those actuall usefful animals. In viewing the ponies the adult can enter into the spirit of the thing, and with the
young enjoy the diminutive Hackney which has yo ambition, pride, style and action wut not the substance of the real, grown-up animal of that name while the docile, little Shetland has its place, and many a child is taught the ways of animal kind by
driving and caring for these abridged editions of the to handle ponies, they bould and girls were allowe understand the animals which may be their servants The pony classes were not too well filled and severa this in no way detracted from the interest taken in their exhibition. It is a treat to see Talke Fir Alarm, that Hackney stallion which has thrice been time in the air as any horse shown in the rinz, and When he touches the earth he does so very lightly gate Queen Victoria is also a splendid mover an with her she brings, each year, a nice foal. These wh Hackney poes were champions of the mial tallion was a flow fietlan despite his lack of size and substance. The champion pony mare, Alice Russell, showed well indeed and her little offspring attracted considerable atten feature of the very young ponies was the duet of cots, one from Whitegate Queen Victoria, the othe
from Berkley Swell, and both by Talke Fire Alarm. Seldom can one see so much Hackney type and style Exhibitors.-Jas. Creech, Lambton. Mills, Ont. Margaret Brown, Toronto: John Miller, Ashburn
Ont.; J. M. Gardhouse, Weston, Ont.; T. Cussion Judge, Senator Robt. Beith, Bowmanville, Ont. Brown, on Preece, 2, Creech, on Hendighand Laddie
3, Miller. Stallion, over 12 hands and up to 13:

Gardhouse, on Talke Fire Alarm. Filly, 3 years over 12 and up to 13 hands: 1 , Creech, on Netty
Horce. Brood mare, with foal at side, 122 hands
and Victoria; 2 and 3, Miller, on Alice Russell and Martl Brood mare, 13 hands and over, with foat at side: 1 Gardhouse, on Berkley Swell; 2, Cussion, on Indiar Flower. Foal of 1916: 1 and 2, Gardhouse, on Lady stallion, Gardhouse, on Talke Fire Alarm. Cham pion mare, Gardhousef on Whitegate Queen Victoria Best Shetland stallion, Margaret Brown, on Preece Best Shetland mare, Miller, on Alice Russell. faint praise" the exhibit of Standard breds, we shal say frankly at the beginning that some classes were real good and others were only ordinary in quality, and for those of horses, the aged stallion class was sudged befoer the Grand Stand rather than on the line in the breeders ring. The object of this we fail to understand, for if the public are to be educated in the selection of good sires to mate type uncaparisoned shith the shown
the desirable tyer or burdened with vehicles. Stallions of this kind should be shown in the ring; then in any other place or manner won management may desire. Burt Axworthy, which ring for the championship, which he captured easily This beautiful chestnut has a wonderfully straight and easy gait and considerable size. While the younger stallions were well brought out, they did not, as a whole, give quite as grod an
action as one would like to see
The aged mare class was the best breed. Six were out in good fit and form. Mabee's Thaesa Directly, a beautifully turned thing, set on good feet and legs, was one of the best movers of this
and the other female classes. She stood and later won the female championshio. Ideal Princess and Juliett McKinnay were next in order, and both were good specimens of the breed. They were excellent individuals and good mares. With the exception of three brood mares in one line-up, the other female Exhibitors.-Wm. Hammall Maddaford, Pickering, Ont.: T. D. Elliott \& Son Bolton, Ont.;-A. C. McMillan, ETi, Ont.; N. S Ont.; Crow \& Murray, Toronto Ashley Sakville, Foxboro Ont. Paterson Bros Ira A. Mabee, Aylmer, Ont.; F. A.'. Heslop, Freeman, Judge, Robt. Graham, Torr, Ont.
Awards.-Aged stallions: 1 , Crow \& Muray on Burt Axworthy by Dale Axworthy; 2, Murray, on Haxshire; 3, Elliott \& Son, on Eastwood Todd by Todd; 4, Hammall, on Victor Peters by Jim Jodd. Aged stallion (pacer), 1, Crow \& Murray on bros. Arley Mckerron by Jack Mc Kerron: 2 Ashley Stock Farm, on Judge Carmen by Peter on Bob McKerron by Jack McKerron Bros., 1 -year-old: 1 and 2 Ashley Stock Fárm. Stallion, Rayner by George Rayner and Winkle Boy by Ahick. Mare, 4 years and over: 1, Mabee, 'on Bros. on Ideal bring Jerry Directly; 2, Paterson on Juliet McKinnay by Washingtal, M, Heslop, Filly, 3 years old: Brown \& Son on Josephine Bingen by Bingen Pilot; 2, Ashley Stock Farm, on Lady McMartin by McMartin. Filly, 2 years: 1 and 2, Ashley Stock Farm, on Ella Bleecker by Ingara and Aunt Fanny by Noble Peter. Filly,
1 year: 1, Ashley Stock Farm, on Clara Gray by Alick; 2, Paterson Bros., on Jessic: P. Goshen by and 3, Ashley. Brood mare with foal by side: Kintyre and Bessie Longwell by Noble W. erson Bros.; 2 and 3, Ashley Stock Farm. Champion stallion, Crow \& Murray, on Burt Axworthy. Chamstring of five, Mabee, on Thaesa Directly. Best Roadsters and Carriage.-A very commendable showing of roadsters was made in which a large ring-
side audience was much interested. The clasges were side audience was much interested. The classes were not large, but the entries were in splendid fit and staged
a good show. There were eight mares, 4 years old and
over, from which Gladys, a beautiful dark-brown
shown by N. M. Henry, was singled out for first place. shown by N. M. Henry, was singled out for first place. other three year-olds. She is by Jack McKerron, and gives evidence of having inherited considerable of her sire's speed. The ribbon for best mare any age, went
to Maggie McKerron. to The chamion
which won in a class of seven mares, 4 years old and over. Her knee action was good, indeed, and quite extreme enough for a serviceable carriage beast.
Exhibitors.- Thomas Bartrem, Toronto; Thos. Cowan,
Orono; John Campell, Georgetown Orono; John Campbell, Georgetown; N. M. Henry Milton West; Crow \& Murray, Toronto; T. E. Hopkins, Cooksville; H. W. Sharpe, Toronto; John Palmer Richmond Hill; And. Cunningham, Toronto; Bell forth;' S. A. Levack \& Son, Toronto; Geo. A. Cameron, Alton; Paterson Bros., Agincourt; Ashley Stock Farm, Foxboro; H. J. Colvill, Arthur; II A. Mabee, Aylmer:
Wm. C. Horbord, Rockwood: G. H. Smith, Delhi; Wm. C. Horbord, Rockwood; G. H. Smith, Delhi Jewell, Ellis, Britannia; J. F. Husband, Eden Mills;
Fer N. Wigglesworth, Georgetown; Archie Gray, Don. Judge-Robert Graham, Toronto.
Awards.- Roadsters-Mare, 4 years and over: 1 .
and 2 , Henry, on Gladys and Connie; 3, Crow and and 2, Henry, on Gladys and Connie; 3 , Crow and Filly or Gelding, 3 years: 1, Crow $\&$ Murray, on Maggie on Jim; 4, Cunningham, on Miss Bingie McCallen. Filly or Gelding, 2 years old: 1, McMichael, on Miss Tolding 1 , Bell Bros., on Maud on Hector Spartan; 3, Paterson Bros., on Lady Beatrice; ${ }^{4}$, Bell Bros., on Lady Belle. Brod Mare and Foal: 1, Cowan, on Lyla; 2, Ashley Farm, on Emma Frasier; Bros. : 2, Ashley Farm. 3 Con Peal: 1, Paterson Crow \& Murray, on Maggie McKerron. Carriage.-Mare, 4 years or over: 1, Crow \& Murray,
on Princess Patricia; 2, Paterson Bros., on Easter Lily; ${ }_{5}^{3}$, Smith, on Glory; 4, Horbord, on Princess Lyle years: 1, 'Baty, on Madges. Filly or gelding, 2 years: 1, Tiit, on Peri, Filly or gelding, 1 year: 1, Anderson,
on Warwick Nellie; 2 , Batty, on Flora Lynette; , Tilt, on Doctor Spartan. Brood Mare and Foal: 1, WigglesBrigham Bell: 4, Gray, on Archie Gray, Fosband on 1916 . 1, Ellis; 2, Wigglesworth; 3, Gray; 4, Husband. Best
mare, any age: Crow \& Murray, on Princess Patricia

Thoroughrrbds.-Under this classification there Graham, Toronto. There was a fine judged by Robt. stallion class, and Wire Inn, Rosturtium, Ben Hodder and Plaudinore were placed in the order named. All were in fine mettle, and the winner in particular mares were brought into the ring, and Saintly. received Exhibitors.-Jas. Bovaird, Brampton, Ont.; Wm. Hammall, Toronto; G. Beardmore, Toronto; Dale \&
Dalziel, Toronto; Jos. Doane, Toronto; J. B. Cowieson
$\&$ Sans, \& Sons, Queensville; Geo. B. Elliott, Newtonbrook. Awaras.--Stallion, 3 years and over: 1, Beardmore,
on Wire Inn, by Wickham; 2, Bovaird, on Rosturtium y Nasturtium; 3, Hammall, on Ben Hodder by the Brood mare with her foal: 1, Elliott, on Saintly bl. Deutschland; 2, Bovaird, on Bella Glen by Cormmant
3, Dale \& Dalziel, on Heather Blend by Ayrshire.
General-purpose.- The classes for general-purpos horses were not very well patronized. A few very
good horses were out, but, generally speaking, then xhibit, as a whole, was mediocre in character. The awards were made by Jorn A. Boag, Quens. ${ }^{\text {Eille. }}$
Exhibitors.Milton West; Wm. G. Hill \& Sons, Queensville Firstbrook
brook; Wros., Toronto; I. M. Male, Mrampton; T. Nattrass,
Mill
Readman \& Son Streetsville.
Awards. Awards.-Mare or gelding, 4 years or over: 1 ,
Telfer; 2 and 3 , Clarksono. Filly or gelding, 3 years:
1, Firstbrook Bros. 2 , Nattrass; ${ }_{3}$,
 Telfer on the aged mare

## HEAVY HORSES

The Canadian National has long been the rendez-
vous for god horses. Importations from the Old
Land have frequently Land have frequently landed just previous to the hold-
ing of Canada's greatest Exhibition, and have there made their debut in Canadian show-ring circles. This
year was no exception as there was a very fine line up of newly-imported Clydere was ases. Some fine fears the-
entries are larger than others and this may be termed an "off"" year romm point of numbers. The termed
of help is partly to blame for this. Fewer entrics than breed years is lagging. Iacation there was interest in horse
bree shod showing
of Canadian-bred animals, and their splendid coinformatian- and animals, and their splendid type,
to produce horses of merity in this that it is postry, that posiple
to to provlucc horses of meritity in thise country, that cosmpare
favorallyy with imported stock. The Clydestares
mad. a commentable showing in both the open and
exceptionally small entry in Shires, however, the
breed was represented by several animals of merit Areed was represented by several animals of merit. various close classes were being placed was not so much In evidence this year, large crowds thronged the ring side to see their favorite breed judged. John A. Boag, Queensville, Ont., placed the Clydesdales, and Rober

Clydesdales.-In the Clydesaale classes several winners at the National in past years were able to hold their places against new comers; others were of the entries this year were making their first majority ance in a Toronto show-ring. Competition was kee in several classes, but the brood-mare and foal classes were strongest in point of numbers. Graham Bros strengthened the showing with a line-up of newly-
imported stock. Several of these horses had been successful in carrying off honors at Old Country shows and some commenced their Canadian show areer by winning in strong classes at Toronto this
year. The graceful carriage, splendid quality and snappy year. The graceful carriage, splendid quality and snappy
action tend to make the Clydesdales a popular heavydraft breed. Canadian bred stock made a good showing, many individuals having fine quality along with
substance. The art of substance. The art of the groomsman was shown animals were brought out
Only four aged stallions were shown, and the battle was between Lord Gleniffer and Alert for first place graced show-rings with their presence, but the decision s usually in favor of the former. Lord Gleniffer is an and quality Alt me may not move as sracefullo as a younger animal, he stands on the kind of feet cydescale men like to see. Alert made a good second. he is much the same stamp of horse as the winner, body is supported on a maod set of feet and well-buil hird place was Dunnottar a standy coudes. Th with smooth shoulders and fine quality. He stands ell on his hind feet and shows a springiness of pasterns of as high quality as those of the previot, they are hardly In order to give beginners, and less extensive breeders and dealers in horses, an opportunity to compete among themselves, importers were excluded from one aged brought out. 0 n Guard made for animals wer the moment he entered the ring He is antession backed horse, with good quarters and heavy muscling There is something attractive about his make-up that appeals to a horseman, and not much fault can be Hero came in for the blue riby of underpinning. Loyal
 and was able to move in a satisfactory manner. From
the stand point of quality he compred the standpoint of quality, he compared favorably with with nicely-turned crowarglass is rather a showy horse, has a set of springy pasterns that give ease to his movements. If anything, he is a trifle more up-standing than the other two
Graham Bros.'
were the only entries iorses, Bonnie Flisk and Diamond, are recent importations and have a show class. Both and Land. They possess substance and excellent thicker animal than snappy action. Diamond is a little strong over the loin
two-year-old class. The Claremont stable made up the and are bred in the purple. All are promising, thick
animals, with well-sprung ribs, and should make good draft stallions. Their feet and legs are the right kind, and they move in an attractive manner. Peer
was placed first in the class. He is animal, and gave the appearance of being more mature
than the rest. He is heavily than the rest. He is heavily muscled, and stands on a
set of deep, broad feet. Auchenharoie is and but is thick-bodied and is strong over the loin. He lien has fine quality of bone and travels well. Fyvie Pearl, a trifle less quality, was placed third, and Reminder
fourth. The yearling class was headed by Mendell Prince, to bottom it would be difficult to mover. From top quality. Royal Maloolm was not tar behind the winner in quality and action. If anything, his feet are a little and good.
Ithere were three fillies in the three-year-old class. It would be difficult to improve much on the conforma-
tion and quality of Lady Lister. She is a showy fill, good enough to win the championship in females. This,
mare has a beautiful body, supported by a splendid set of lesg, under which are largerted deep a teet. splendid
Sessie
Scott is by no means a plain mare. She would not be Taulted much in any point, except when in comparison
with very high-class company. In conformation and the quality was barely as pronounced the winner, but Lister. Daisy of Newcastle secured third money. While higher. There was a good, showing of two-year-olds, and Bell Baron and Fiana's Choice strove for first place.
Both are thick-botiad fillies. well
spibedendid legs and feet splendic legs and feet. The former is a particularly
strong-toped mare. with quality throughoutc.
suche
succeded in standing first, with the latter a close

Bessie May Gartly, a good-topped, thick mare, with previous two, and had to be content with third place. Sweet Pegyy also showed very favorably in this class. There was a close decision in the yearling filly class,
Neither Margery Daw nor Mendell Queen could be Neither Margery Daw nor Mendell Queen could be tauted much in type, conformation, quality, or action.
Both are showy flllies with strong The latter is a particularly showy colt be and loins. Daw possesses the same desirable qualities and has the advantage of having a little more size, without in any way detracting from her trimness. Finally she secured hardly the scale of the other tero Eleven brood mares, with foals by their.
the strongest class of the day. They were all biy, made mares, heavily muscled, and many had splendid quality but it takes extra Some were a little out of condition, show fit when she is raising a foal and helping out the teams on the farm.
and conformation banie, a showy mare of excellent type and conformation, had the honor of heading this strong desired in Clydesdales. The legs are of with the quality and, while the feet are large, it might be an imbone, ment if they were deeper. Seldom does one see a mare of substance with such a fine, beautiful head. Tangy quality. Very little fapley mare, with substance and she was a close second to the winner with her, and Beauty, also a deep, thick, strong mare, with snappy action, stood third. In the past she has gone higher in er lass, but, compared with the strong company she and ankles She a colts superior in quality to herself. Nell McE put up, much the same build of mare with good quality came Courth. The foals made a fine showing, and many will a particularly well future. W. Batty won first, on In second place was a drafty colt from the stable of
and Goodfellow Bros.
There was no discount on the type of mares competing in the yeld mare class. All showed substance and quality. Queen Ida of Petty's place at the top was
not disputed. She is an attractive mare with back and loin, body well ribbed-up, anth strong nicely turned rump. The quality of bone and feet is of Mee finest, and her action is true and snappy. Sweet Mary is a mare with possibly more substance than the more matured. The conformation and heavy appeared together with quality right to the ground made her good second. Parkfergus Meg, a thick mare and with Iessie to move in a creditable manner, was third, with Jessie, a mare with splendid feet, in fourth place.
Exhibitors. - Adam Watson Ottawa; Graham Bros., Claremont; M. McPhaden, Tesswell. Thos. McMichael \& Son, Seaforth; Jos, arm; L. J. C. Buli, Brampton; Robt., Lake Marie Newcastle; Alex. McCort \& Son, Bolton; W. E. Jewelli oowmanville; John Brown a Son, Galt; Geo. A Bros., Bolton; W. F. Batty, Brooklyn.
Awards.-Aged stallion: 1 and 2 Graham Bros, On Lord Gleniffer by Sir Ronald, and Alert by Baron's ride; 3, Rothwell, on Dunnottar by Glenshinnock Aged stallion (importers excluded): 1, Pellatt, on On Guard by Prince Sturdy; 2, McPhaden, on Loyal Hero Sy Revelanta; 3, Telfer, on Knight of Barglass by
Hiawatha Godolphin; 4, McMichael \& Son on Ronald by Baron's Luck. Stallion, three years: 1 Lord an Bros., on Diamond by Dunure Diamond and Bonnie Flisk by Bonnie Bucklyvie. Stallion, two
years: 1 to 5 , Graham Bros, on Peer by Baronette of years: 1 to 5, Graham Bros., on Peer by Baronette of by Everlasting, Reminder by Dunure D; Examiner by Everlasting Stallion Diamond, and Graham Bros., on Mendell Prince by Mendell; 2 and 3 , Bull, on Royal Malcolm by Lord Malcolm, and Gay Grahuchan by Gallant Carruchan. Filly, three years: \& Son, on Bessie Scott by Dux; 3 , Maxwell, , McCort Daisy of Newcastle by Montrave Imperialist Filly, two years:
 Bros., on Fiana's Choice by Scotland Champion; 3,
Cameron, on Bessie May Gartly by Baron Gartly; 4, Son, on Miss Topsy by Earl of Sanchar Filly Brown \& 1, Rothwell, on Margery Daw by Dunnottar; 2 , Graham Fros., on Mendell Queen by Mendell; 3, Bull, on Jean
Favorite by Golden Fayorite; 4, Dyment Bros., on Lady on Seaham Boyai Prince. Brood mare: 1 , Rothwell, Tangy Maid by Thoredoal; 3, Batty, on Newbigging by Thoredoalia 5 , Dyment Bros., on Milton Nancy by Petty by Baron of Bucklyvie. 2 Roth Queen Ida- of Mary by Squire Ronald; 3, Batty, on Parkfergus Meg by Silver Cup; 4, Bull, on Jessie by Royal Favorite.
Foal of 1916: 1, Batty, on Halma; 2, Goodfe llow Bros., on Miss Jessamine by Baron Gregor; 4, B ull, on Leda's 1, Jewell, on Tangy Maid; 2, Batty, on Newbigging
Beauty; 3, Goodfellow Bros, on Judith. Champion stallion: Graham Brow., on Eord Gleniffer; Champion
fennale: Graham Brons., fenale: Graham Bros., on Lady Lister. Best string of
five: Graham Bros.' Best Canadian-bred Clydestale
tality five: Graham Bros. Best Canadian-bred Clydesdale
stallion: Gratham Bros., on Darnley Edward. Best
Canadian-bred Clydesdale mare: Pellatt, on Lady
Bydand


## Founded 1866

thick mare, with
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THE FARMER'S ADVOCATE.
$P_{\text {ERCHERONs. }}$-The entries in Percheron classes were not numerous, although in all but one or two there was
competition for all the cut off, consequently the animals exhibited were mostly Canadian bred, and they proved that the right kind o
Percherons can be raised on Canadian soil, as practically all the entries were of superior merit to what has been shown in the past. There was uniformity of type and conformation throughout. The entries at the National
this year showed that breeders are meeting with a degree of success in breeding for quality of underpinning as well as to maintain substance. Wm. Pears, of West Toronto, had out an exceptionally
practically all bred in his own stables.
Eight typical horses competed for honors in the
ged stallion class. Irade, a horse with great substance, aged stalion class. Irate, a horse with great substance, quality underpinning for an animal of his age and the best stallion of the breed in the ring. His stablemate, Lampyre, a horse of much the same stamp, was
put in second place. Third stood Lyon, a strong-topped, quality, right to the grouse. Kahir, a big, strong animal, was fourth
Eclipse and Major Cormier competed for the red
ribbon in the three-year-old class. Both are the right kind, with good shoulders, legs and pasterns, but the
ormer is a trifle heavier-bodied horse, and finally won

The two-year-old class was represented by Chifftain
and Buchez Joffre. The former is a nicely turned colt and Buchez Jofrre. The former is a nicely turned colt
of a little more substance than his competitor, and he of a little more substance than his competitor, and he
secured the first honors, although he had nothing over him in quality.
not to be despised.
Lloyd-George e had things his own way in the yearling
class, but hissize and quality are such that it would be class, but hissize and quality are such that it wou
a colt out of the ordinary that would beat him. The winner of the three-year-old filly class had a
cun for her money. Four useful mares, that should make goor breeders. came before the tures, that Allould had
mbstance and quality, and, with the exception of one, substance and quality, and, with the exception of one,
were well fitted. Lady Impresse finally went to the head oi the line. She is possibly a little heavier muscled than with strong, deep feet. Lady Julia, from the same stable as the winner and of much the same conformation
nosed in second. Polly Patricia, a strong-topped mare nosed in second. Polly Patricia, a a strong-topped mare
with a good heart and splendid underpinning, went her. The fourth mare looked as if sher than those above a lot of hard work this summer. A little more flesh In the two-year-old class, Lady She is a splendid-topped filly of good conformation,
and showed and showed excellent quality. Her feet might be faulted
a trifle for being a little flat, but her legs and ankles are clean and flinty. Lady Kagnat lacks a little in quality of bone, but her substance and heavy muscling put her second, with May. Flower a good-bodied mare,
well-ribed, up in third. There were only two yearling well-ribbed, up in third. There were only two yearling
fillies in the ring, and Lady Kocarde, the heaviest built of the two, secured the red ribbon. Lady Lorraine has
quality equal to the winner, but she is of a rangier
The brood mare class brought out some good indi-
viduals, but Lady Grey's place at the head of the line was not disputed. She is a stylish mare that carries
herself in the herself in an attractive manner. Her smoothness, good
conformation and quality, attracted the eve. That she conformation and quality, attracted the eye. That she
is a breeder of her own kind, was shown in the colt at
her side. She shown. Kalmonck, a mare of substance, but a little plainer in the quarters, was second. She is a heavily
muscled mare, with as oood feet and legs as any in the muscled mare, with as good feet and legs as any in the
ring. Julia, a u useful kind, worked into third place,
with The foals, a are all growe-mathe, in fourth out of Lady Gree, had Lidtle divificulty in waunning the
red ribbon. Although there were larger colts out, she In the yroughout Lady Julia, yeld-mare class were Lady Impresse and
year-olds. The were first and second in the threea mare of more substance than Lady Julia, worked up Second place, with Karavane in fourth.
E.thibitors. J. B. Hogate, Weston; Edwin Chap-
man, Brampton, T. D. Elliott \& Son Bolton
 Weston; James Callander, North Gower.
Awards.-Aged stallion. 1 and 2, Elliott \& Son, on
Irade by Sahara, and Lampyre by Hound; 3, Hill \&
Sone
 Stallion, three years old: 1 , Hill \& Sons, on Eclipse by
Eureuil) 2 P Pars, on Major Cormier by Cormier
Stallion, two years: 1 , Henry \& Son, on Chieftain by Lion: 2, Elliott \& Son, on Buchez Joffre by Buchez
Staillion, one year: Dobson, on Lloyd-George by Crade
Filly, three year:
 on Polly Patricia by Ecureuil; 4, Henry \& Son, on
Queeen Marion by Jendi. Fill, wo years. 1,2 and 4 ,
Pears, on Lady Kate by Cormier, Lady Kagnat by
Kagnat, and Lady May by Cormier; 3, Dobson, on
May Flower by Bychey Fily Cone May Flower by Buchez. Filly, one year: 1 I and so, Pears,
on Lady Kocarde and Lady Lorraine by Cormier.
Brood mare with her foal: 1,3 and 4 , Pears, on Lady
Grey Crey by Incivil, Julia by Agathon, and Kocarde by
Coapigny, 2, Dobson, on Kalmonk by Triolete.
Foal: 1 and 2 , Pears, on Lady Guedo by Guedo, and

Colonel Cormier by Cormier; 3, Henry \& Son. Yeld
mare: 1 and 3, Pears, on Lady Impresse, and Lady Julia
 2, her progeny: 1 and 3 , Pears, on J.llia and Kocarde: with Cormier at the head. Best string of five: Pears Irade. Reserve: Henry \& Son, on Chieftain. Best mare Pears, on Lady Grey. Reserve: ' Pears, on Lady Im-

Shires.-The Shire exhibit was not strong, as in The Shire, being a draft horse, considerable substance
is looked for in representatives of the breed. Practically islooked for in representatives of the breed. Practically
all the animals brought out conformed to breed type and showed fine quality. throughout. King Junior, and erona Leader competed for the red ribbon in the aged stallion class. The former is the most typical of the horse, in no way lacking in quality. Prince Charles s a horse of quality and has partone in his class. He legs. If he had a little more middle, it might be an
improvement for a draft horse. Johnson Bros. brought improvement for a draft horse. Johnson Bros. brought
out two big, strong, typey mares, both possessing quality out two big, strong, typey mares, both possessing quality,
and both were active movers. Their foals by their
Exhibitors. - Johnson Bros., Croton, Ontario, and Jas. Callander, North Gower, Ont.
Awards.- Aged stallion: 1 , Johnson Bros., on King Junior by Palterton Forest King: 2, Callander, on Johnson Bros., on Prince Charles of Lampton by Prince Charles of Waresley. Stallion, one year: Johnson Bros.,
on Croton Forest King by King Junior.
Brood mare 1 and 2, Johnson Bros., on Grey Fuchsia by Proportion and 2, Johnson Bros., on Bluster Crow by King Junior and May Queen by Prince Charles of Waresley. Cham pion stallion: Johnson Bros., on' King Junior. Champion mare: Johnson Bros., on Grey Fuchsia. Best two mares
or fillies owned by exhibitor: Johnson Bros

Hear y Draft.-Pure-breds of any breed, which lave draft characteristics, may be exhibited under this Canada. However, representatives of the Clydesdale
breed were the only ones out. This class gives breeder breed were the only ones out. This class gives breeders on a small scale a better opportunity to show their
horses than do the open classes, where they come into competition with imported stock. The entries were fairly large, and there was not a poor animal out Practically all were well built, typey individuals of
excellent quality right to the ground. There was closer excellent quality right to the ground. There was closer
competition in several classes than there was in the
The aged stallion class was headed by Darnley Edward, a strongly-built horse of the right quality,
with snappy action. He is a trifle rangier than other with snappy action. He is a trifle rangier than other
competitors, but his clean, flinty legs and deep feet competitors, but his clean, flinty legs and deep feet
could not be overlooked. International stood in the same place as he did last year. He is a nicely-turned, strong-topped horse, with fine quality, but was in too
strong company to Golden Dawn, a smooth animal of much the same a thick, deep-bodied, drafty worse, lacking somewhat, a thick, deep-bodied, dratty horse, lacking
The two-year-olds were fairly uniform in conforma-
tion. Tapsman, a thick, well-built colt, with excellent tion. Tapsman, a thick, well-built colt, with excellent
quality of bone, but not as free a mover as one likes to see, was first. Happy Jack, a rangier horse than the
winner, but with desirable, kind of feet blue ribbon, with Colonel Lumsden, a little plainer colt thand place.
ther, but showing free, trappy action, in
then Royal Arwo yearling stallions were on exhibition. splendid quality throughout, stood second to Prince Carruchan, a trife ploianer animal that has substance
and is heavily muscled. The legs and feet of neither
colt could be faulted much.
Lady Bydand is
nd is a show mare and had little difficulty in winning the three-year-old filly class. She is a well-
balanced filly, with a strong top and an excellent set of clean, flinty-boned legs and deep, broad feet. Syringia is hardly as close coupled a mare as the winner, but
she was by herself, it would be difficult to pick many she was by herself, it would be difficult to pick many
flaws in her make-up. In third place was Golden Crest a strong-fronted mare, but a little plain in the quarters.
She is a useful kind, but was in too strong company to stand higher in her class.
the two-year-old fillies. It wase time before deciding on to place. Hillside Ethel, a showy colt with the right kind of feet and legs, but a little more up-standing
than some of the others, secured the red ribbon. She carried herself nicely and went straight and true. close coupled a mare as the winner, but is seatlly turned,
and her conformation and quality attracts attention. and her conformation and quality attracts attention.
Lady Betty Acme is a larger framed mare than the her appear plainer than her company. She is heade her appear plainer than her company. She is heavily-
muscled, with strong, clean legs and a deep set of feet
Nellie Caruchan Nellie Carruchan, a nicely-made filly, went fourth. The yearling hillies made astrong showing. It was
between Sweet Marie and Molly May for first place They are of much the same stamp and have excelten
underpinning, with springy pasterns and deep. broad
feet. Both showed fairly snappy action, but finally the former was accorded first lace. Brampton Favorite, a strongly-topped, close-coupled filly, with full quarters,
stood third. She was not lacking in either quality or
style. In fourth place was International First, a wellGolden Maggie, a splendid stamp of draft mare, of excellent quality, stood first in the four-year-old class The class for exhibitors engaged solely in farming. was represented by two entries from the stable of wobs. Duff \& Son. two entries from the stable of
Rote big strong mares of much the same build. Fairview Queen was in a trifle better condition than her stablemate, and was put first, although she hardly travelled with the same ease Three colts competed in Prince Ascot, a very prett the class for foals of 1916. placed firsot. with very pretty colt and well-built, was hardly as stylish as the former, was made second.
Exhibitors.-Thos. McMichael $\&$ Sons Ont.; J. F. Staples \& Son, Ida; Graham Bros., Claremont; $\dot{\text { P. M. M. Boynton \& Son, Dollar; Goodfellow Bros., }}$ Bolton; Robt. Duff \& Sons, Myrtle; B. Rothwell,
Ottawa; Sir H. M. Pellat, Ottawa; Sir H. M. Pellatt, Lake Marie Farm; John
Brown \& Son, Galt; W. F. Batty, Brooklin; Dyment Bros. Dundas: L. I. C. Bull, Brampton; Bates Bros Oakville.
Edward by Edward - Atalion: 1, Graham Bros., on Darnley International by Prind Darnley; 2, McMichael \& Son, on Golden Dawn by Golden Gleam: 4, Maples \& Son, on on Glen Rae by Great Britain. Stallion, two years: 1 , Happy Jack by Lord Ronald; 3 , Goodfellow Bros., on 1, Duff Lumsden by Baron Gregory;. Stallion, one year chan; 2 Graham Bros., on Royal Arthur by Royal Baron. Filly, three year-old: 1, Pellatt, on Lady Bydand by Bydand; 2 , Rothwell, on Syringia by Sir Spencer; Filly, Byly, two years: 1 and 4, Batty, on Hillside Ethe by
Bydand, and Nellie Carruchan by Gallant Carruchan: 2, Pellatt, on Woodside Rosalind by Sir Spencer; 3, Brown \&' Son, on Lady Betty Acme by Day Dream.
Filly, one year: 1 , Pellatt, on Sweet Ma Filly, one year: 1, Pellatt, on Sweet Marie by on Guard;
2, Batty, on Mollie May by Gallant Carruchan; 3,
Bull, on Bramptoe Fay McMichael \& Son, on International First by International. Broot mare (importers and dealers excluded): 1, Staples \& Son, on Golden Maggie by Golden Dream;
2 , Boynton \& Son. Brood mare, with foal of the same breed by her side: 1 , Duff \& Son, on Fairview Queen
by Baron Monagur, and Nollo by Baron Monagur, and Nellie Queen of Scots by
Eastfield Laddie. Foal of 1016: 1, Batty, on Prince Ascot by Baron Ascot; 2, Duff \&' Son, on Fairview
Gallant by Baron Ascot; 3, Bates Bros. on Looken hy Lovely Baron. Draft mare, with two of her progeny: draft stallion: Graham Bros., on Darnley Edward. Best heavy draft mare: Pellatt, on Lady Bydand.
Drafrres IN HARNEss.-Firstbrook Bros. Won
frst in the class for single gelding or mare, any breed with a grey horse named Claude. Britnell \& Co. were second and third with Jim and King. In pairs
Britnell \& Con were the only exhibitors. In a class for single Clydedales ma
Firstbrook Bros. were first, with Britnell \& Co. a a ain second and third. In the team class Britnells were Girst with the same two horses, while L. J. C. Bull, Brampton was second with a pair, slightly less weighty, ut very good in feather and at the ground, general-purpose mare or gelding hitched to a vehicle; Firstbrook Bros. were second, and Clarkson third.
In teams Clarkson In teams Clarkson was first, and Firistboook Bros.
second. The harness classes were jurged by John second. The harness classes were judged by John
A. Boag and Robt. Graham.

## beef cattle.

The beef cattle breeds made a splendid, showing. nn numbers they did not quite equal last year's exhibibit constitute a very impressive display of that and still ing, type, conformation and character, which stockmen desire. There has been a keen demand and breeders have been tempted to part with some good individuals. These have either gone across the
line or into herds whose owners did not see their way clear to fit and exhibit them. Help has also been scarce. These factors all influenced the live-stock department of the Canadian National in 1916, but even in this year of abnormal weather, labor and trade conditions
there was a splendid exhibit.

SHORTHORNS.-Visitors to the Canadian National Shorthorns during recent years, and they were not disappointed at the Fair now past. It was an exceptional but, taking eme-honored and popular breed of cattle; quite so good as last year's event There outstanding animals in the many classes, but the general character of the entire stowing lacked the high tone of the Shorthorn exhibit of 1915. Our attitude with regard to this is not pessimistic. The comparison is only actual conditions. all, buyers from across the line have scoured the country from one end to the other, picking up, here and there,
good ones from every herd. good ones from every herd. One "cannot eat his cake
and have it, too." Many of the good ones are across the line, and will probably appear at exhibitions held under another flag. Despite these two powerfully
infuential factors, lead out either a junior or senior herd (some both) while other exhibitors contributed one or more animals
younger generation are now making show-ring history a very indelible character, but among the exhibitors toronto will be recognized the names of some men who have helped to make Shorthorns the popular breed they are in this country. Their reputations were of A. F. \& G. Auld. Two grand championships and one junior championship went to the Auld herd, while the unior champion bull was chosen from a nice bunch of young stuff shown by Mitchell Bros. Auld's, furthermore, won all the graded herd prizes. which, together with heir other winnings, constituted an achievement that exhibito occurs more than once in the lifetime of an light in numbers, but broadly, the aged classes were in them. The junior line-ups were exceptionally strong in some cases, while a few classes were not so well filled, as we have seen them on some past occasions in the cattle ring at Toronto. It was a grand exhibit, and the herdsmen deserve no small portion of the redit for bringing out well-fitted cattle and showing them properly before the judge and the ring-side specSecretary of the Amer Sharthorn Breeders' Associa tion, Union Stock Yards, Chicago

Burnbrae Sultan and Lavender Sultan, both exedingly good sons of that famous sire, Superb Sultan, were alone in the aged class. The first-mentioned bull, even after an undefeated tour of the Western Show circuit this. season, never showed better in an Eastern ring. He is deep, compact, low-set, deeply, firmly and smoothly fleshed, and, in fact, possesses, almost to the extreme, if that were possible, the beef type characteristics of a typical sire. He won his ribbon and was an exceptional bull but the differences between him and his competitor were marked enough to make the decision unanimous.
Sea Gem's Pride was shown in the two-year-old class, along with three other bulls. This promising young sire is by Trout Creek Wonder, and his good conformation, quality and character should make him
valuable animal in the herd where he is doing service.
One senior yearling and four junior vearlings came One senior yearling and four junior yearlings came
forward. The latter class was won by Gold Finder bull of good conformation, but not endowed with spond with the qualities behind

The senior calf class, considering both numbers and quality, was the best line-up of males brought out and among the seven turned down were young fellows that breeders would pay good money to own. Th Count of Selma had several qualifications that recommended him for first place. He was a thick, low-set fellow, well-fleshed and smooth. However, Escana Model, while perhaps not quite so thick a bull, but excellent in straightness of lines and in handling qualities,
won the class. won the class. The winner was later made junio
champion, Royal Triumph won third place by champion, Royal Triumph won third place by a small
margin, for, compared with those above him more upstanding and slightly plainer behind he was Champion, in fourth place, was a thick, nicely-topped bull, while the fifth candidate was of similar type. A low-set fellow came in for sixth place, and the next honors went to Sultan's Commander, a large fellow with a good top.
A strong class of junior calves lined up, eight in
number. This leet was won by Shenley Marquise on number. This leet was won by Shenley Marquise on
quality, type and character, for the young calf was exceptionally good in these respects. Other judges the winner, a January calf. They stood first and second respectively, and only time can prove which of such young stuff has the most outcome. Gold Mine, a good roan, stood third.
Four cows constituted the aged female class. Silver
Queen, last year's sensational Queen, last year's sensational champion, won here,
and, except for a little patchiness behind, she was the same blocky, typey Shorthorn she was in more popular days. While she won her class, a younger female, with youth on her side, from the same stables, captured the coveted championship ribbon. Broadhook's Rose 3rd, Lady of the Valley 7 th in third. The latter individual was a blocky, deep, well-fleshed cow, but, like the two above her, inclined to patchiness behind. The fourth
prize winner, Lily Archer, showed better in purpose class, where she won second place
Countess 16 th was the sensation of the
heifer line-up and champion of the female wio-year-old has a wonderfully good conformation, excellent constitu tion and wealth of fleshing. Except for a minor weak ness about the thigh, she is a model of Shorthorn type
Eight senior yearlings were brought out. Honors
went to Queen Elizabeth and Countess Nursie, respecinely. Both were similar type, straight in the tines
well-fleshed, and quite showy in front. Merry Midre 2nd, a low-set, red heifer went third, and Countess Selma, fourth. The latter heifer would have shown better with a little more fleshing. The fifth candidate,
Blossom's Fragrance, possessed a splendid constitution and good handling qualities.
The struggle in a class of nine junior yearlings was between. Escana Beauty 2nd and Evely. While the
latter heifer was slightly lower set and possessed a very latter heifer was slightly lower set and possessed a very
swcet appearance about the head, the other heifer had a little more substance and was more thickly and evenly hesine The frst-mentioned heifer was placed at the
top, and seldom has one the opportunity to handle
such a wealth of flesh so firm and even. Evelyn was
a sweet heifer. Thelma 3rd, a smooth thing of good quality and well-fleshed, was third. Silver Queen, a strong 9th, with splendid quality, but a trifle smaller than her competitors, was fifth

Britannia was considered good enough to win the class of nine serifor calves and junior female championship. She was both smooth and typey. A deep-ribbed, stronger flanked calf, Escana Missie 3rd, was second, and a third well-grown but not quite as compact and typey as the more successful ones. In fifth place again was found a younger and smaller calf with good quality Some splendid junior calves were forward, and one of the small ones of the leet, Matchless 48th, was put at the top. This calf had straight lines and was a good handler Escana Broadhooks, in second place, was a larger calf, but did not promise quite so much as, the winner. Golden Lady was third, and Broadhook's Sweetheart, fourth.
Good calves were st:ll found in the money farther down the line

There was nothing spectacular in the dual-purpose cow or heifer class. It was won by Cecelia Lavender, which comes of a good milking strain, but she is only a two-year-old heifer, and gives more promise of being uilk. The second-pize than she does as a producer o showed too great a tendency to yield the lactic fluid at the expense of Shorthorn conformation. It was not a good class of Shorthorns, for only the winner boasted of the primary qualifications, viz., Shorthorn type, purpose classes have lined up at Toronto, but the purpose classes have lined up at roronto, but the that different judge with differague and indefinite difficulty in erting any ling influenco Exhibitors-A $\mathrm{F}_{\mathrm{F}}$ \& $\mathrm{A}^{2}$. house \& Sons, Highficld; W. C. Edwards, Rockland; Jas. Leask \& Sons, Seagrave; Peter Stewart, Guelph; Kyle Bros., Drumbo; T. A. Russell, Downsview; Mitchell Bros., Burlington; J. A. Watt, Elora; George Seagrave; Pritchard Bros., Elora.

Hillcrest Heiress; 8, Kyle Bros., on Lady of the Valle 10th. Heifer, junior calf: 1, Gier, on Matchless 48th 2, Mitchell Bros., on Escana Broadhooks; 3, Edwards, on Golden Lady; 4, Gardhouse, on Broadhooks' Sweet heart; 5 and 6, Kyle Bros., on Golden Drop 23rd and Lady of the Valley 11th. Cow or hcifer (Dual Purpose) 1, Gardhouse, on Cecelia Lavender; 2, Sleep, on Lily Archer; 3, Brown, on Royal Mysie Girl; 4, Watt, on Violet Belle; 5, Kyle Bros., on Golden Drop 14th Senior and grand champion bull. Auld, on Burnbra Sultan. Junior champion bull. Aitchell Bros., on Auld, on Countess 16th. Junior champion female Auld, on Britannia. Graded herd: 1, Auld, on Burnbrae Sultan, Silver Queen, Countess 16th, Queen Elizabeth and Britannia; 2, Gardhouse; 3, Kyle. Junior herd 1, Auld; 2, Watt; 3, Mitchell Bros; 4, Gardhouse; 5 . Edwards; 6, Kyle Bros. Junior herd, bred by exhibitor: 1, Auld; 2, Mitchell Bros.; 3, Gardhouse; 4, Edwards; , Kyle Bros. Three animals, get of one sire: 1 , Watt Edwards. Two animals progeny of one cow: 1, Watt 2. Mitchell Bros.; 3, Auld; 4, and 6 , Gardhouse; 5 , Edwards. Four calves, bred and owned by exhibitor: , Mitchell Bros.; 2, Gardhouse; 3, Auld; 4, Gier; 5 Watt; 6 , Kyle Bros. Steer, two years and 4 , sired by registered Shorthorn bu. Steer, yearling: 1,2 and 3, Russell: 4, Kyle Bros. Steer, under one year 1, Russell; 2, Brown; 3, Kyle Bros.; 4, Stewart.
Aberdeen-Angus.-Five Ontario breeders of the Aberdeen-Angus are to be commended for the exhibit of the black, polled cattle they took to Toronto. very good indeed. Patrons of this breed quald increas their business and the popularity of their cattle if they would turn out in greater numbers and show the public what they have

The real test in the aged bull class was between Young Leroy and Jock of Glencairn. The judge, and in this character Bowman's the low-down type Lowe's bull, Jock of Glencairn, was a deep-ribbed sire of good quality straight in his lines and was shown in
good form, but his competitor was a trifle nearer the ground and
perhaps a shade more perhaps a shade more won. Ernesto, in third place, was a good bull,
but not in such good fit as the other two. Young Leroy was ultimately made grand siven the medal for the best individual of the breed.

Bravo's Prince was the better of two two-year-olds. He was a sappy and well cov-
ered. There were four senior yearlings and at the top was placed
Elm Park Kelso, a typey, well-built felBrigadier of Larkin Farm was second, and
possessed the good qualities of the winning candidate, only

## Awards.-Aged bull: 1, Auld, on Burnbrae Sultan

 1, Kyle, on Sea Gem's Pride; 2, Leask, on Royal Sultan L. Edwards, on Maxwalton Coral ; 4, Stewart, on LordLancaster. Bull, senior yearling: 1 Stewart on Coun Vancaster. Bull, senior yearling: 1, Stewart, on Count
Victor. Bull, junior yearling: 1, Edwards, on Gold
Finder. Finder; 2, Leask, on White King; 3, Russell, on Royal calf: 1 and 6 , Mitchell Bros., on Escana Model and and Escana Commander; 2, Watt, on The Count of Selma 3, 5 and 8, Auld, on Royal Triumph, Campaigner and house, on Sultan's Commander. Bull
1 and 5, Watt, on Shenley Marquise and Perfea Stamp; 2, Gardhouse, on Sultan's Choice; 3, Kyle Bros.
on Gold Mine; 4 and 7 . Auld on Royal Ambassador; 6 and 8, Edwards, on Butterfly's Duke and Silver Cup. Cow, aged; 1 , Auld, on Silver Queen 2, Gardhouse, on Broadhook's Rose 3rd; 3, Kyle Bros.
on Lady of the Valley 7th; 4, Sleep, on Lily Archer on Lady of the Valley 7 th; 4 , Sleep, on Lily Archer
Heifer, two years: 1, Auld, on Countess 16th; Gardhouse, on Sultan's Lady; 3, Kyle, on Golden
Drop 20th. Heifer senior on Queen Elizabeth and Countess Nursie; 3 and 6 Stewart, on Merry Mildred 2nd and Matehless Belle Blossom's Fragrance. 7 Kitess Selma; 5, Gardhouse, or Heifer, junior yearling: 1 and 6 , Mitchell Mros., on
Escana Beauty 2nd and Escana Blossom: 2 Auld, Evelyn: 3, Watt, on Thelma 3rd; 4, Gardhouse, on
Silver (Queen; 5, Kyle Bros., on Lady of the Valley 9th Heiter, senior calf: 1 and 6 , Auld, on Britannia and
Puslinch Dimple; 2 and 3, Mitchell Bros on Esen Missie 3rd and Escana Beauty 3rd; 4, Gier, on Emmeline
constitution and straightness of line. The aged cow,
as stated, was a trifle down in her feet as compared as stated, was a trifle down in her feet as compared The good and weak points must be balanced in all placings and these were two good individuals.
close were the animals in merit that the decision could have been reversed without leaving any grounds for complaint. Primrose stood second in the heifer class, and Elm Park Keepsake third. They were two of the good kind. The fourth place winner, Palmedia Pride 4th, was a thick, well-fleshed kind.
There was nothing outstanding in the class of There was nothing outstanding in the class of three
senior yearlings. Better individuals came out in junior yearlings, and the red went to Elm Park Pride junior yearlings, and the red went to Elm Park Pride champion female was found in the senior calf class, where Pride of Larkin Farm 13th won from three others of similar age. This calf gives all the promise of developing into an adult champion, for she is a very sweet, thick and typey heifer; even as a calf she
won the grand championship and was considered one won the grand championship and was considered one
of the best of the breed. Four junior calves of the best of the breed. Four junior calves came Pride 17th, a very nice January calf. Pride 17th, a very nice January cal Lowe, Elora; Jas. Bowman, Guelph; J. D. Maitland, Awards.-Aged bull: 1, Bowman, on Young Leroy; 2, Lowe, on Jock of Glencairn; 3, Larkin, on Ernesto. Bull, 2 years: 1, Larkin, on Bravo's Prince; 2, Bowman,
on Elm Park Wizard 4th. Bull, senior yearling: 1, Bowman, on Elm Park Kelso; 2, Maitland, on Brigadier Farm; 4, Davies, on Elm Park Puck Bull Larkin yearling: 1 and 2, Bowmank Puck. Bull, junior and Earl of Larkin Farm. Bull, senior calf: 1, Bowman, on Elm Park Rare Goods; 2, Lowe, on Middle-
brook Prince 5th; 3, Larkin, on Prince Bravo junior calf: 1, Lowe, on Middlebrook Rover 7 th, Aged cow: 1 and 2, Larkin, on Pride of Glen Rose, and Glen Aberdeen Rose 2nd; 3, Bowman, on Elm Park Rosebud 17th; 4, Lowe, on Middlebrook Pride 9th. Heifer, 2 years: 1, Lowe, on Middlebrook Beauty 6th; 2 and 5, Larkin, on Primrose, and Stumpie; 3, Bowman, on Elm Park Keepsake 17th; yearling: 1, Bowman, on Emmeline of Larkin Farm; 2 and 3, Larkin, on Rosalind and Lady Cheerful Heifer, junior yearling: 1 and 3, Bowman, on Elm Park Pride 15th, and Elm Park Witch 6th; 2, Lowe,
on Middlebrook Pride 17th; 4, Larkin, on Primrose on Middlebrook Pride 17th; 4, Larkin, on Primrose Pride of Larkin Farm, Her Majesty and Rosalin; 3, Bowman, on Elm Park Emmeline. Heifer, junior calf: 1 and 3, Lowe, on Middlebrook Pride 17th, and Middebrook Pride 18th; 2, Bowman, on Elm Park Senior and grand champion bull, Bowman, on Young Leroy. Junior champion bull, Bowman, on Beauty's Leroy. Senior champion female, Larkin, on Pride of Glen Rose. Junior and grand champion female, Larkin, on Pride of Larkin Farm 13th. Graded herd: 1, Bowman, on Young Leroy, Elm Park Rosebud 17th, Elm Park Keepsake 17th, Elm Park Pride 15th, and Elm Park Rosebud 26th; 2, Lowe; 3, Larkin. Breeder's junior graded herd: 1, Bowman; 2, Larkin. 3 , Larkin; 4, Lowe. Best 2 animals, progenyan; one cow: 1 and 2, Bowman; 3 and 4, Larkin. Best 2, Lowe. The medal for best animal of the breed; went to the champion bull, Young Leroy.
Herffords.-The broad, deep, low-set, white-faced
Herefords contributed to the wonderful Herefords contributed to the wonderful display of beef
cattle. The aged classes were fairly strong in numbers and quality, but the jusses were fairly strong in numbers by a little more fitting. Four breeders were out with a goodly number of their chosen animals.
Lord Fairfax, Clifford's champion of the Western
show circle, was obliged to take second place to the show circle, was obliged to take second place to the
low-set and massive Bonnie Brae 31st in the aged class of bulls. While little can be said in criticism of Lord Fairfax, the winner was lower set, better finished and
more massive. Bonnie Ingleside 7th was not quite so blocky or so thickly fleshed as the two successful competitors. Brendo Boy, which went fourth, was a trifle
more up-standing. no senior yearlings, and only one junior yearling bull. sire and won the junior championship. Five senior calves lined up, with Rosemark Ingleside 58th in the lead. He is a nice handling calf. Reliance, a promising
young bull, but not quite so good as the winner, was
placed second. Mark Fairfax was placed first in a leet placed second. Mark Fairfax was placed first in a leet
of five junior calves. The splendid Hereford cow, Miss Armour Fairfax,
by that famous sire, Perfection Fairfax, won the aged
cow class, and went on for the senior and grand cow class, and went on for the senior and grand cham-
pionship, This was a repetition of her accomplishments
in the West, with the exception of Brandon her stablemate and half sister, Della Fairfax, won the
high honors. Miss Armour Fairfax showed splendid Hereford type. She was straight in her lines, low-set
and well fleshed, and she did not lack in quality. Miss and well fleshed, and she did not lack in quality. Miss
Brac 50 th, another typey cow, was second, and May
Queen 3rd), a little larger cow, but not quite so smooth, There were five two-vear-old heifers forward, and
first place went to Della Fairfax, a smooth thing of
splendlid dimensions. Miss Brae Real 2nd, in second
place, was not so deep as the.winner. Miss Brae Real splendid dimensions. Miss Brae Real 2nd, in second
place, was not so deep as the, winner. Miss Brae Real,
which won third, was not quite so even along the back.
Four senior yearlings and five junior yearlings were out

The former was a fairly strong class, while the latter showed many good characteristics, but they were not
in any too good fit. Amy Fairfax and Queen Fairfax in any too good fit. Amy Fairfax and Queen Fairfax The Hereford awards were made by Thos. Clark Beecher, Ill.
Exhibitors-G. E. Reynolds, Elora; L. O. Clifford, Oshawa; W. Readhead, Milton; James Page, Wallace-

Awards.-Aged bull: 1, Page, on Bonnie Brae 31st; 2, Clifford, on Lord Fairfax; 3, Readhead, on
Bonnie Ingleside 7th; 4, Reynolds, on Brendo Boy Bonnie Ingleside 7th; 4, Reynolds, on Brendo Boy.
Bull, 2 years: 1, Clifford, on Alvin Fairfax; 2 Reynolds, on Brae Real. Bull, junior yearling: 1, Page, on on Brae Real. Bull, junior yearling: 1, Page, on
Brae Real 6th. Bull, senior calf: 1 and 3, ReadIngleside 34th; 2, Reynolds, on Reliance; 4 and 5


Blue Gray.
Clifford, on Ronald Fairfax, and Donald Fairfax. Bull, junior calf: 1, Clifford, on Mark Fairfax; 2, Page, on Brae Real 8th; 3, Readhead, on Brookdale 1 and 3, Clifford, on Miss Armour Fairfax, and May Queen 3rd; 2, Page, on Miss Brae 50th; 4, Readhead, on Rubella Ingleside 33rd; 5, Reynolds, on Durham Beauty. Heifer, 2 years: 1 and 4, Clifford, on Della Fairfax, and Miss Brae 81st; 2, Page, on Miss Brae Real 2nd; 3, Reynolds, on Miss Brae Real; 5, Readhead, on Laura B. Heifer, senior yearling: 1 and 2
Clifford, on Bell Fairfax, and Miss Brae 56th. Page, on Miss Brae Real 6th; 4, Readhead, on Ruby 3rd. Heifer, junior yearling: 1 and 3, Page, on Miss Brae Real 8th, and Miss Brae Real 10th; 2, Reynolds, on Twin; 4, Readhead, on Rubella of Brookdale Heifer, senior calf: 1 and 2, Clifford, on Amy Fairfax, and Blanche Fairfax; 3, Reynolds, on Miss Reliance; 4, Page, on Miss Brae Real 11th. Heifer, junior Miss .Reliance 4th; 3, Readhead, on Gladys of Brook-


A Winning Southdown.
Champion Southdown ram at Canadian National Exhibition,
Toronto, 1916, for Robt. McEwen, Byron, Ont.
dale; 4, Page, on Miss Brae Real 13th. Senior and grand champion bull, Page, on Bonnie Brae 31st.
Junior champion bull, Page, on Brae Real 6th. Senior and grand champion female, Clifford, on Miss Armour
Fairfax. Junior champion female, Clifford, on Belle Fairfax. Graded herd: 1, Clifford, on Lord Fairfax Miss Armour Fairfax, Della Fairfax, Belle Fairfax,
and Blanche Fairfax; 2, Page; 3, Readhead; 4, Reynolds. Junior herd: 1, Clifford; 2, Page; 3, Readhead. Breed er's junior herd: 1, Page. Three animals, get of one sire:
1 and 3, Clifford; 2, Page; 4, Readhead, 5, Reynolds. Two animals, progeny of one cow: 1, Clifford; 2, Page;
3 , Readhead. Best 4 calves, bred and owned by

## MORE AND BETTER FOWL AT TORONTO

The poultry building was filled to its capacity there being between five and six hundred niore entries than last year. The standard of quality set in the past was maintained this year in every class, and a
marked improvement was noticed in some. On account marked improvement was noticed in some. On account
of the prolonged period of excessive heat the past of the prolonged period of excessive heat the past season has been a particualarly trying one on both old and young fowl. However, the young stock
exhibited was well-developed and exhibited was well-developed and most of the mature fowl showed to good advantage, although in a few cases
the appearance was somewhat marred by their being in moult. All breeds of both utility and fancy stock were represented. The entries in the class for pens of utility birds were twenty-eight in excess of last year's. In the single classes the single-combed White Leg horns led in numbers, closely followed by the Barred Plymouth Rocks, White Wyandottes, Rhode Island Reds and Orpingtons. tinue Leghorns con tinued to hold a high position owing to egg
production. Barred production, Barred
Rocks were a particRocks were a partic-
ularly strong class, but there was also a fair showing of other
varieties of the breed. varieties of the breed.
Of the Wyandotte Of the Wyandotte
breed the White breed the White
variety is the most variety is the most
popular, if the number
of entries is any crite of entries is any crite
rion. Rhode Island rion. Rhode
Reds and Orpingtons are gradually gaining
in favor. The showing of both these was
better than usual. Houdanis, Anconas Campines, Minorcas,
and other special and other special
breeds were less numbreeds were less num-
erous than the utility birds, but some fine specimens of each were to be seen at Toronto this year, All classes
of Bantams were well of Bantams were well
filled and the Pigeons surpassed previous years. Water fowl made and showing. Ducks were particularly strong in numbers and the entries of geese were in excess of other years. There was also an increase in the number of turkeys, and the quality was never better. In fact, ne entries in all classes of fowl showed quality to a marked degree.
The egg exhibit was in the dairy building. Although the entries in the various classes were considerably smaller in number than last year the eggs were well graded and made an instructive exhibit. They were put up in single-dozen lots and in the various sized commercial packages, and graded into specials, extras over the way the importance of grading not only for quality but for size and color. Individual producers, egg circles, and commercial firms competed in the various classes. Owing to the large field to draw from, egg circles were suctessful in winning many of the prizes. They certainy have advantage over the individual when putting up a case, or number of cases, of eggs of first quality. Even commercial firms complain that they were unable to secure eggs that would compete favorably against the egg circles. This was a reason given why the entries were so smasithis year. Individual pouitryand believed that the entries would be greatly increased another year if separate classes were made for individuals. egg circles, and commercial firms. All would then be on a more equal footing in regard to supply from

## FRUIT AND VEGETABLES.

Despite the conditions in the country and the quality of the fruit crop generally, the exhibit at the Canadian National was superior to that of recent years. A little additional prize money and a re-arrangement of the building resulted in a vast improvement. Four exhibitors competed for the display prizes. Tables having
an area of 124 square feet were to be decorated with an area of 124 square feet were to be decorated with
different varieties of fruit. This innovation very much improved the appearance of the fruit wing of the Horticultural Building. The first prize was awarded to Dalhousie Farm, -Port Dalhousie, Ont. Their table was very tastily decorated with an exhaustive variety of apples, pears, plums, peaches, grapes and cherries.
In the centre was built up a pyramid of fruit of good In the centre was built up a pyramid of fruit of good
quality. W. I. Furminger, St. Catharines, Ont., had quality. W. I. Furminger, St. Catharines, Ont., had
the second prize table, which was decorated in much the second prize table, which was decorated in much
the same manner as the winning display, but the surface the same manner as the winning display, but the surface
did not show such a great wealth of fruit. The thirdprize table was arranged by Wm. Armstrong, Niagara-on-the-Lake, and the fourth by W. H. Bunting St Catharines. It would be hard to criticize from casual observation the quality or character of these two latte displays. Another great feature of the fruit wing was the plate exhibit. Ten hundred and twenty plates in all were counted, in addition to the great quantity used on the display tables. Never have we seen such a beautiful exhibit of plums, which were displayed in four basket crates, in veneer laskets and on plates,
One plate of Climax plums, which were very large and
well matured, was an attractive feature of the plum exhibit. Besides the plates, there were forty-two boxes of apples, nineteen baskets and seven boxes of peaches,
forty-two boxes and twenty-two baskets of pears. As previously stated, the whole exhibit was of excellent the country. Cones and other methods of showing apples were also in evidence. Grapes of many varieties, peaches, cherries, plums, and other kinds gave the fruit wing a distinctly semi-tropical appearance.
The unfavorable weather conditions of the past season influenced the vegetable exhibit very unfavorably.
As a whole, it was not up to past standards, and at the As a whole, it was not up to past standards, and at the
middle of the second week the exhibit had a somewhat wilted appearance. Vegetable culture is becoming a very important industry, and our exhibitions should do all in their power to promote it. Weeks is too that in a season such as this, that two weeks is too long for ment would do well to consider some way of improving the prize list and the arrangement. If displays could be erected for the first week, to be replaced by the
regular classes during the second week, we feel sure the department would present a much more attractive appearance throughout the Fair

## THE BUTTER MAKING COMPETITION

Following are the winners in the butter-making competition Section 1, open to farmers' wives, sons or daughters,
or hired help, residing on the farm in Canada or United in previous years, or those who have worked in the factory or creamery, or students or ex-students of dairy school: 1, Mrs. Walter Hill, Parkhill, 94.65 2, Mrs. R. W. Dove, Pottageville, 93.43 ; 3, Miss Effie Dove, Pottageville, 93.11 ; 4, Mrs. R. C. Young, Bel mont, 93.00.
Section 2, open to all who cannot compete in Section 1 , except those who have taken two first prizes in this
section in previous years: 1 , Miss L. B Gregory Ilder ton, 97.33 ; 2, Miss R. Patton, Richmond Hill, 97.02 ; 3, Miss Mary Jayne, Baltimore, 96.91 ; 4, Miss Isabelle Cole, Tavistock, $96.76 ; 5$, Miss Margaret Bryden,
Puslinch, $9674 ; 6$, Miss Alice Barber, Guelph, $96.6 \overline{5}$. Section 3, free for all: 1, Miss L. B. Gregory, Ilderton, 97.46; 2, Miss Isabelle Cole, Tavistock, 97.17; 3, Miss Alice Barber, Guelph, $97.12 ;$ M, Miss Margaret
Bryden, Puslinch, 96.47 ; 5, Miss Mary Jayne, Baltimore, 96.40 .

## Sandy Silenced "Jean

## Editor "The Farmer's Advocite"

## I had been thinkin' o' payin' a visit tae some ${ }^{\prime}$

 ma auld cronies, oot the way $o^{\prime}$ Dunvegan, for sometime past, an sae the ither day I says tae the auld wumman, "Jean", says I, "the hayin' is done, think we'll tak' a run west to see the friends in Kenyon Juist give me a help wi' ma collar an' necktie an then ye can be pittin' on yer bonnet an' shawl, while I'm hitchin' up the horseIt wisna' lang before we were ready tae start for the auld wumman is aye as willin' tae gang gossipin as the majority $o^{\prime}$ her sex, but as the day wis fine along at a rate that gave us a chance tan' juist jog arms that we passed, an' tae dae a wee bit o' criticizin on the side. They say that ye can tell a mon's character
by his surroundings, an I suppose it's true tae a certain extent onyway. Gin it is, there's a lot. o'
different characters in this country. Ilka farm se passed seemed tae be rin on a system a wee bit different tae a' the ithers. There wis guid, bad an' indifferent, maistly the latter. One farmer we noticed must hae got a permanent set-back by the late spring line o' his farm operations. Ye could see juist enuch $o^{\prime}$ his turnips above the weeds tae ken that they were turnips. The bugs had got a' his potatoes but the heaviest 0 the stalks, and his corn had apparently got discouraged an'started tae gae back his grain an' sow-thistle when we passed, but he hadna' feenished his hayin an had a field or twa tae cut that looked as though it micht be left oot till next year wi'oot takin' ony further damage. "Weel, says I tae Jean, "the Highlander never wis a farmer, an it looks as though it wad tak' an unco' lang time tae gang tae the war. Fightin' wis aye mair tae their taste than farmin'. "Hoot," says Jean," juist bide a wee an' ye'll see a change before mony years. Twenty years, back there wisna muckle word o' telephones an' rural mail an' automobiles $A^{\prime}$ we need in this warld is someone tae set the example


Typical Canadian Shropshire.
an' ye'll find plenty ready tae follow it. Wi' a few men tae lead the way there's naething could stap ne wheels o progress on this auld airth. It took the present war, an' noo the best pairt o' the warld is engaged in tryin' tae smash doon $a^{\prime}$ that has been built up wi' sae muckle labor an' cost in the last hundred years. An' it wad be na different gin we had leaders tae show us a better way. The crowd wad Iow them, juist as fast, an wi' a better wil
too, I'm thinkin', for it's mair in line wi' common sense tae be warkin' for the welfare o' humanity than tae be killin' ane anither for we dinna' ken what Na doot we had tae hae the lesson, but it's an unco expensive one, an' the wheels o' progress are draggin' I'm lookin' for the compensation aboot that. But life an' property, an' though I'm no' as young as I was I'm hopin' tae live tae see the day when men
will be as anxious tae improve society as they noo will be as anxious tae improve society as they noo "People hae been lookin' for the millenium for some time
see it some, she replied, "an somebody is gaein' nae 'I said, it wouldna' tak', muckle tae set things. As in the richt direction, an' once that wis done there wad be no stoppin' them in this age o' invention an some one may turn up tae show us the way forghtin some one may turn up tae show us the way oot o
the woods an get us on tae the highway $\mathrm{o}^{\prime}$ progre once mair. It's juist as likely tae happen as was onything that has happened in the past twa yeor ye, canna' deny that. When that time comes ye'li no' be able tae drive through the country an' find the day. yer neebors style o' farmin', as ye're daein the owner will hae the education an , farm becaus mak' it that."
"An' I suppose," says 1 , that when that day comes will be things as the rural telephone an' mail delivery will be oot o' date, alang wi' a' oor ither twentieth micht esily ventions an improvements." "That wi' haein' a wireless replies Jean; "what's the matter in the country an' all o' us carrying a in ilka hoose wi' us wherever we went. An' as for rural delivery, it wouldna' be hard tae improve on that delive hae it the noo. Instead o' gettin' oor mail delivered at oor road-gates, that may be half a mile or mair frae the hoose, why could we no hae it carried by aeroplane an' dropped intae a receiver that wad carry it direct tae oor sittin-room or library? That
wad be what ye micht call mail delivery. An' anither great improvement will take place, when we invent something that will dae awa wi the necesity spendin' sae muckle o' oor time in providing foo tae keep us alive. I wis readin' somewhere or ither lately that the air is full o' nitrogen, an' that it wad support life gin we could extract it frae the atmos machine to dae this Sandy?" says she "Think $\mathrm{o}^{\prime}$ all the time ye waste sowing yer grain an' Teap an' threshing, to say naething o' mysel', wi' cooking an' dishwashing till I'm fair played oot sometimes." "But what," says I, "wad keep ye oot o' misI'm thinkin', gin ye cut oot baith the eatin' an' workin. pretty short, "ye dinna' get the idea. There's plenty ${ }^{\text {o' }}$ wark, in the warld besides cooking an'
was. "'I ken it," says I, gettin' roused up a wee bit, an' gin, ye ever get tae the place where ye can tak' hauld ${ }^{\prime}$ ' a better job it will be by makin' the best when $a^{\prime}$ these things ye hae been talkin' about day come tae pass, though l'm thinkin' that by that time we'll no' be able tae tell ye're age by yer teeth: but for the present it's up tae us tae tak' things as we find them an' pit the best o' oor mind an' muscle those that will see it. Gin an loave to-morrow for a while back had warked on this plan it isna, passed that his turnips wad be playin' hide-an-seek amons the weeds, nor his hay be still waitin tae be cut. There's juist one method that I ken aboot that warks oot richt ilka time in a case like this Jean, says 1 , "an day an' tae quit dreamin' ${ }^{\text {, }}$, what happened yesterwill gie ye a chance tae get yer cooking done an yer dishes washed to-day, wi' maybe a little time left in which tae invent a way o' feeding babies wi' bicycle pump, or somethin' o' the kind," says I.
Juist here we cam' in sight o' Dunvegan an'
Jean made na reply, but by the look in her e'e I'm thinkin' she has a word or twa tae say tae me yet
on the subject.

## Toronto, Montreal,



| Cars |  |  |  |
| :---: | :---: | :---: | :---: |
| Cattle | ${ }_{411}^{111}$ |  |  |
|  | 1,416 |  |  |
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| Horses | 41 | 2,88 | 2,92 |
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## Buffalo, and Other Leading Markets

$\square$

$\$ 8.40$ to $\$ 8.65 ;$ good heavy steers, $\$ 8$
to $\$ 8.25$ choice, $\$ 7.80$ to $\$ 8 ;$ good,
$\$ 7.40$ to $\$ 770 ;$ mes.

 medium, $\$ 5.50$ to $\$ 5,75$; common, $\$ 4.75$ to $\$ 5.25$ Canners and cut
ters, $\$ 3.50$ to $\$ 4.75$. Bulls, best heavy, $\$ 7$ to $\$ 7.25$; good, $\$ 6$ to $\$ 6.75$;
common, $\$ 5$ to $\$ 5.50$. Stockers common, $\$ 5$ to $\$ 5.50$. Stockers and
feeders, $\$ 5$ to $\$ 6.50$. Milkers springers, $\$ 55$ to $\$ 100$. Spring lambs, choice, 10 c . to $103 / 4 \mathrm{c}$. per lb .; common
7 c . to 8 c . per lb . Light, handy shecp $61 / 2 \mathrm{c}$. to $71 / 2 \mathrm{c}$. per lb .; heavy, fat sheep to 10 c . per per 1 lb Hogs, $\$ 11.15$, f.o.b
$\$ 11.75$ to $\$ 11.85$, fed and watered
$\$ 12$ to $\$ 12.10$ weighed off cars. Les $\$ 12$ to $\$ 12.10$, weighed off cars. Les light hogs, and one-half of one
cent. government condemnation loss.

Breadstuffs.
Wheat.-Ontario, No. 1 commercial $\$ 1.22$ to $\$ 1.24 ;$ No. 2 commercial, $\$ 1.18$
to $\$ 1.20 ;$ No. 3 commercial, $\$ 1.14$ to $\$ 1.16 ;$ No. 2 new crop, $\$ 1.28$ to $\$ 1.30$.
Manitoba (track, bay ports) - No. Mantoba (track, bay ports)-No.
northern, $\$ 1.73 ;$ No. 2 northern, $\$ 1$.

## THE ROTAL BANK OF CANADA

## Capital Authorized - - $\$ 25,000, \oplus 00$ Capital Pald UP - - - $\quad 11,785,000$ ( Assets - - - 314,000,000

HEAD OFFICE: MONTREAL
Branches thiroughout every Province

| Accounts of Farmers |
| :---: |
| Invited |
| Sale Notes Collected |

Savings Department at all Branches

Oats.-Ontario, No. 3 white, new
52 c . to 54 c . . No. 3 white, 51 c . to 53 c . Manitoba oats (tracl., bay ports)-No feed, 57 c .; No. 1 feed, $561 / \mathrm{cc}$.
Barley.-Malt.ing barley, 85 c . to 90 c . nominal, feed barley, 80c. to 83 c . neminal.
Peas. -According to freights outside
No. 2, $\$ 2$ to $\$ 2.10$, nominal. Buckwheat.-Nominal.

## 

 Corn.-American (track, Toronto), No. 3 yellow, $981 / 2 \mathrm{c}$. first patents, inFlour. - Manitoba Hte bags, $\$ 8.40$; second patents, in
pute bags, $\$ 7.90$; strong bakers', in jute jute bags, $\$ 7.90$; strong bakers, in jute
bags, $\$ 7.70$. Ontario, new, winter, ac-
cording to sample, $\$ 5.60$ to $\$ 5.70$, cording to sample, $\$ 5.60$ to $\$ 5.70$,
track, Toronto; $\$ 5.50$ to $\$ 5.60$, nominal, bulk, seaboard.

## Hay and Millfeed.

Hay.-New, No. 1 , per ton, $\$ 10$
$12 ;$ No. 2 , per ton, $\$ 9$ to $\$ 9.50$.
Straw.-Car lots, per ton, $\$ 6$ to $\$ 7$,
Bran.-Per ton. $\$ 28$.

## Shorts-Per ton, \$29.

Good Feed Flour.-Per bag, \$2.25.
 at $\$ 5.50$.

Country Produce.
Butter--Butter was quite firm, but on the wholesales during the past week. Creamery, fresh-made 1 b . squares, 35 c .
to 36 c . creamery, solids, 34 c . to 35 c .
 Eggs.- New, -laid eggs also firmed on the wholesales during the past week
the case lots are now selling at 34 c . per dozen, and 3 ac. to 33 c . per dozen.
Cheese.-Old, 24c. to 25 c . per lb. Poultry--Poultry came in fairly well during the past week. Live weight-
Spring chickens, 18c. per lb.; spring ducks, 12c. per 1b..; turkeys, young,
20c. Fowl, 4 lbs and over, 15c. per lb.; fowl, under 4 lbs., 14 c . per lb.; squabs,
per dozen, $\$ 350$ to $\$ 4$ (dressed).

Hides and Skins.
Lamb skins and pelts, $\$ 1$ to $\$ 1.50$;
sheep skins, city, $\$ 2.50$ to $\$ 3.50$; sheep skins, country, $\$ 1.50$ to $\$ 3$; city hides, country hides, part cured, 17 c .; country
count
 Per lb., 40 c .; horse hides, No. 1, $\$ 5$ to
$\$ 6$, horse hides, No. 2, $\$ 4.50$ to $\$ 5.50$;
 Wholesale Fruits and Vegetables. Tuesday and Wednesday of last week
had the heaviest markets so far this of the in lact the crowded appearance made one think one of the more fruitful seasons had returned
Peaches predominated some choice quality-they opened strong,
but the large weakened the price, and and they gradually
follows: as
 lenos, 25 c . to to 50 c c.; 11 -qt. flats, 25 c .
to 50 c .11 I - ta . lenos, 40 c . to 75 c ., with
a few at 8 c . to $\$ 1$.

Pears were a very slow sale at 20 c
to 25 c . per 6 q.ts., and 25 c , to 60 c
per 11 qts., with a few choice at 65 c .
Flums were shipped more lightly at the beginning of the week, but came
in freely towards the end and declined slightly, selling at 25c. to 40 c . per 6 qts., and 35 c . to 60 c ., with a few extra choi bringing 75 c . and 85c. per 11 qts.
Black currants came in in small and brought $\$ 1.40$ to $\$ 1.50$ per 11
qts.. band 75 c Mts. and 75 c . per 6 qts . and declined materially in heavily Tuesday shipments only bringing about half as much as the previous Saturday-
they closed at 25 . to 50 c., with a they closed at 25 c . to 50 c., with a
very few bringing 60 c . to 75 c . 11 qts., and 50 c . to 7 Fc. per 16 qts . trapes began to come in fairly wel-
the Champions selling at 20c. per 6
qts., and Moores Early at 25c. to 30 c . $\underset{\text { per }}{\text { pawton }} 6$ berries are just about ove selling at $121 / \mathrm{cc}$. to 13 c . per box.
Tomatoes came in freely at the be ginning of the week and remained low priced-decreasing in quantity towards
the end of the week and firming in price, seling at 15 c . to 25 c . per 6
qts, and 25 c . to 35 c . per ${ }^{-111}$ qts., with a ew choice on
50 c . to f:0c
Beans.-Wax beans of choice quality came in last week and brought 75 c ,
to $\$ 1$ per 11 qts.; the green ones selling
at 50 c . to 75 c .
40c. per 11 qts.
Cabbage also
kept about the same price-selling at $\$ 1$ per dozen, and
$\$ 3.50$ per case.
Carrots declined slightly, selling Carrots declined slightly, selling at
40 . to 50 c . per $11 \mathrm{qts}$. , and $\$ 1.35$ per bag.
at 30 c . to to 50 c . more fieely, and sold Onions continued to be scarce and were quite firm in price-Spanish selling
at $\$ 4.75$ to $\$ 5$ per case; Californias $\$ 3.75$ to $\$ 4$ per $100-\mathrm{lb}$. sack; Canadian dried selling at 40 c . to 50 c . per 11 qts .
Potatoes also firmed a litle selling at $\$ 2.35$ per sack; New Bruns

## Montreal.

Supplies of cattle on the local market consumption has been somewhat stimulated by the cooler weather. The feature
of the trade was the weaker feeling in the market for cattle, and prices exception of canning stock, which was steady, this being attributed to the increased offerings. The supply of really
choice steers was somewhat limited, choice steers was somewhat limited,
and only odd lots changed hands at $\$ 8$ to $\$ 8.25$; fair to good steers ranged were made freely at $\$ 4.75$ to $\$ 5$, and was a good demand for lambs, and prices held firm. Ontario stock sold
at $\$ 10$ to $\$ 10.50$, and Quebec brought $\$ 9$ to $\$ 9.50$ per 100 lbs. A strong feeling in sheep carried the price up
50 c . per 100 lbs . under a good demand The market for hogs showed practically no change, prices being steady. Selected
stock sold at $\$ 11.75$ to $\$ 12.15$; medium stock sold at $\$ 111.50$, with rough and heavy weights at $\$ 10$ to $\$ 1.77$, while
sows sold at $\$ 9.25$ to $\$ 9.65$ per 100 lbs.
Horses. There was no change in this market. Heavy draft horses, weighing
1,500 to 1,700 . lbs., were quoted at $\$ 200$ to $\$ 250$ each; light draft, weighing 1,400 to 1,500 Hes. to $\$ 125$ each each $\$ 50$ to $\$ 75$ each; fine saddle and carriage
Dressed Hogs.-A fair trade continues to be done in the market for
dressed hogs, and sales of abattoir, fresh dilled stock were made at $16 / 2 \mathrm{c}$. to
Potatoes.-The poor outlook for the potato crop this year is responsible for
a great scarcity, both local and from New Brunswick, and the price advanced
Sc. per bag. Ouebec stock sold at Sc. per $\$ 1.95$ per bag; Green Moun-
tiins, $\$ 1.90$ to $\$ 1.95$. Honey and Syrup.-There was no for maple products, with prices hold ing steady, selling at 85 c . to 90 c . per
$8-\mathrm{lb}$. tin; $\$ 1$ to $\$ 1.10$ for $10-\mathrm{lb}$. tins;
and $\$ 1.25$ to $\$ 1.30$ per $13-\mathrm{lb}$. tin. Sugar was 9c. to 12. per 1 b . The tone of
the market for honey was steady, and prices showed no change. Prices were 11 c c. . 16 cc . per 1 lb . for white clover comb, and 12c. to $121 / 2$ c. for extracted. Brown clover comb was $121 / \mathrm{c}$. to 13 c .
and extracted 10 c . to 11 c , while and extracted 10c. to 11c., while buck-
wheat honey was 9 c . to 10 c per Eggs.-A firm tone prevailed in this market, and the tendency of prices
was upwards. The demand continued good for domestic account, continued an active trade was done. Strictly newcandled, 29 c . to 30 c ., and No . 2 , No. 26c. to 27c, per dozen.
Butter.-There was no actual change in the condition of this market, although prices were well maintained. Business that English importers have fallen out of the market for the time being at
present prices. Finest creamery was quoted at $343 / 4 \mathrm{c}$. to 35 c . per lb ., while fine ranges $1 / \mathrm{c}$. under these figures.
Undergrades brought 33 c . to $331 / 2 \mathrm{c}$. with finest dairy butter at $271 / 2 \mathrm{c}$.
Cheese.-At the auction here No. 1
 colored brought $191 / 2 \mathrm{c}$. to $195 / 8 \mathrm{c}$., with white at $193 / 8 \mathrm{c}$. to $191 / 2 \mathrm{c}$. market for oats, with prices fractionally

extra No. 1 feed, $591 / 2 \mathrm{c}$.; No. 1 feed,
$581 / 2$ c., and No. 2 feed, 58 c . per bushel,
Flour. - There was practically no Manitoba first patents selling at $\$ 8.50$. seconds, $\$ 8$, and $\$ 7.80$ for strong bakers, per barrel, in bags. The tone of the
90 per cents. selling at $\$ 6.90$ to $\$ 7.20$ $\$ 3.40$ per bag. unchanged. Bran was quoted $\$ 25$ per ton; shorts, $\$ 27$; middlings, $\$ 29$; pure grain mouille, $\$ 33$ to $\$ 34$;
and mixed mouille, $\$ 31$ to $\$ 32$ per ton, ncluding bags.
No. 2 hay at $\$ 13$; No steady, with No. ${ }^{2}$ hay at $\$ 13 ;$ No. 3 at $\$ 11.50$;
clover, mixed, at $\$ 10.50$ per ton, ex-
track.
Hides.-Lamb skins were up to $\$ 1.30$
each; horse hides being $\$ 1.50$ for No. 3 ; hides were 21c., 22 c . and 23 c . per 1 b . were 31c. for No. 2 , and while calf skins Tallow was 8 c . per 1 lb . for rendered,
and $21 / 2 \mathrm{c}$. for rough.

## Buffalo.

most unsatisfactory for a week was the 130 back. Monday's run reached around 130 cars, and it was a very sluggish
trade, with prices on steers standing anywhere from a quarter to fifty cents under the previous Monday. The class eight or ten loads, ran mainly towards the fair kinds, majority being Can$\$ 9.25$. Eastern killers, who loaded was the latter part of the previous week in anticipation of the railway strike,
were out of the deal, and sellers had
, to depend upon country buyers for an outlet. Four or five loads of yearlings offered, range on the best being from $\$ 9.00$ to $\$ 9.85$. Local killers acted badly on the butchering steers, taking these only after a big quarter to fifty
cents had been taken off, and they bought sparingly at that. and they were not many, looked about steady and while rates on some of the fairish changed, canners were slow and, if anything, a shade lower. Bulls were gen which were slow to find sale, were quoted steady to a shade lower, and resh cows and springers showed a de-
cline from $\$ 2.50$ to $\$ 5$ per head Monday and right up to the close of lize week the trade was in a demora-
lized condition. Sellers were willing make further concessions of a quarter on
most butchering grades, however, the
take-off was no inducement to buyers, and the big end of the crop went over
unsold from day to day, Friday's
receipts including receipts including thirty-five cars of stale stuff. Offerings last week were
4,700 head, being against 5,225 head or the week previous, and 4,800 head Shipping Steers.-Choice to natives, $\$ 9.50$ to $\$ 10.50$, to prime natives, $\$ 9.50$ to $\$ 10.50$; fair to good, very coarse and common, $\$ 7.60$ to $\$ 8$;
best Canadian, $\$ 8.50$ to $\$ 9.35$; fair to good, $\$ 8$ to $\$ 8.50$; common and plain; Butchering
$\$ 8.50$ to $\$ 9 ;$ fair to good, $\$ 8$ to $\$ 8.50$; best handy, $\$ 8.50$ to $\$ 9$; fair to good, $\$ 7.25$ to $\$ 8.25$; light and common, to $\$ 10.05$; fair to good, $\$ 8$ to $\$ 8.75$. butcher heifers, $\$ 7.50$ to $\$ 7.75$. handy to good, $\$ 6.50$ to $\$ 7.25$; best heavy fat cows, $\$ 7$ to $\$ 7.50$; good butchering
cows, $\$ 6$ to $\$ 6.50$; medium to cows, $\$ 6$ to $\$ 6.50$; medium to fair,
$\$ 5.25$ to $\$ 5.75 ;$ cutters, $\$ 4.50$ to $\$ 4.75$; canners, $\$ 3.25$ to $\$ 4.25$.
butchering, $\$ 6.25$ to $\$ 6.50$ to $\$ 7$; good Stockers and Feeders.- Best feeders,
$\$ 7$ to $\$ 7.25$; common to $\$ 6.75$; best stockers, $\$ 6.75$ to $\$ 7$; common to good, $\$ 5.50$ to $\$ 6.25$. best, in small lots, $\$ 80$ to $\$ 100$; in to loads, $\$ 70$ to $\$ 75$.
Hogs.-Prices held well above the
 best grades sold from $\$ 11.35$ to $\$ 11.50$,
with pigs $\$ 10.65$ to $\$ 10.75$. Tuesday with pigs $\$ 10.65$ to $\$ 10.75$. Tuesday
pigs were steady and best grades sold was wider, top being $\$ 11.85$, with pigs dropping to $\$ 10.50$; Thursday the spread was from $\$ 10.50$ to $\$ 11.75$,
and Friday the best grades sold from and Friday the best grades sold from
$\$ 11.65$ to $\$ 11.75$, and pigs, which were $\$ 11.65$ to $\$ 11.75$, and pigs, which were
offered as low as $\$ 10.00$, were hard weighed from 160 to 190 pounds under sold the better quality hogs of the same weight by from twenty-five to fifty cents per cwt. General price for best
roughs was $\$ 10.00$, and stags roughs was $\$ 10.00$, and stags ranged were 14,200 head, as compared with
20,487 head for the week before, and
23,500 head for the same week a year ${ }^{\text {ago. }}$
with top lambs selling week started to $\$ 11.75$, with culls mostly from $\$ 11.50$ down; Tuesday no lamb sales were made above $\$ 11.50$; Wednesday tops again reached $\$ 11.75$, with culls fetching from $\$ 11.75$; Thursday best lots sold with general market for tops was $\$ 11.75$ Top yearlings are quotable around $\$ 9$ and $\$ 9.25$. Sheep were strong a
week, top quotation for wethers being $\$ 8.25$, while ewes sold from $\$ 7$ to $\$ 7.50$,
as to weight. Receipts last weelk aggregated 8,000 head, being against Calves.-Prices were on the jump last week, new records being made. Monday and Tuesday top veals sold at Thursday a bunch of choice Canadian veals made $\$ 14.75$, and Friday which was the high day, bulk of the top, t $\$ 15$. Good handy culls reached as high as $\$ 13$ and $\$ 13.50$. Friday's
supply included 200 head of Canadians running from a grasser to toppy $\$ 14.00$, some heavy fat ones going at $\$ 9.25$ and $\$ 9.50$. Receipts last week were 1,700 head, as compared with ago.

## Chicago

Cattle.-Beeves, 86.60 to 811.35
 Cows and heifers, $\$ 3.65^{5}$ to 80.40 ; calves
88.75 to 813, Hogs.-Liight, 89.90 to $811.25 ;$ mixed, rough, $\$ 9.65$ to $\$ 9.85$; pigs, $\$ 6.50$ to Sheep. - Native, 86.75 to 88.35 . Lambs, native, ${ }^{57}$ to $\$ 11.25$.

Attention is directed to the advertise ment of John Hallam, Limited, manertise-
factured furs, in this issue.


The Canadian National Exhibition.
What a Tourist Thought of It.
Miss Ruby Morrison concludes her account of the Big Fair
Dear Margaret:
Again I am in my room on Jarvis
Street, shoes off, kimono on, ready to Street, shoes off, kimono on, ready to
finish my account to you of our visit finish my account to
to the great Fair.
This was Children's Day, and the whole place overflowed with boys and girls and small mites almost down to
long dresses. They say no tess than long dresses. They say no fess und
143 were lost during the day and rounded up at the police station on the grounds, help the big policemen out in taking help the big policemen out in taking
care of the wailing strayaways. think, if I were in the place of some
of the mothers I should tether "the family" to me with clothesline, and run the risk of being transformed into a
maypole that could be unwound with maypole
difficulty

The Horticultural Building.
At nine o'clock sharp Mollie and went again through the fine main gate way and made our way to the Horti-
cultural Building. Mollie says the arrangement' was more beautiful this year than ever, and how she raved ferns and palms, and the chief display was made up of them, two great banks all interspersed with brilliant crotons, orchids, red-flowered callas, and other plants that looked like callas, but whose leaves were variegated in a score silvery white, quite as though Dand Nature had been trying to see what she could do in the line of paint and she broidery. Along one side of the build. ing a miniature stream ran from a grotto between banks of foliage, while just beyond a garden had been arranged
with larkspurs and other flowers arranged with larkspurs and other fow
Elsewhere in the building was a fine collection of Indian things-pottery,
bead work, totem polcs, etc., even bead work, totem poles, etc
skulls of the various tribes. skulls of the various tribes. There were a few pieces of pottery taken from
the mounds of the Mound-builders, how ancient decorated and better shaped, which had been made in early days by Indians in Ontario, and a few more,
beautifully formed and decorated, fromm beautifully formed and de the hands of the advanced tribes of Arizona. The woven grass baskets
from British Columbia, close enough to hold water, were very beautiful.
quite wanted to carry soni of quite wanted to carry some of them
off. Someone told us afterwards that there
was a flower-ma, in one section, but
we did not see it. we did not see it. And we had been
flatering ourselves that we were missing nothing!

Applied Arts Building. many paintings for which rown werc
not been found in the Art not been found in the Art Gallery,
some mural decorations by your Ontario artist Fred $\leq$. Haines, the photo display, architectural draw-
ings, and some cases of decorated china, and hand-wrought and handenamented jewery. the latter was for
sale, some of the trinkets at very high
prices. I wonder if the Arts and Crafts Sociecties which are trying so hard to
more interesting than eternally turning out just one little part from a stupid ever read the life of William Morris? He was really the father of the modern
Arts and Crafts movement a very Arts and Crafts movement,
wonderful and interesting man.

## The Munitions Building

From the Applied Arts Building it was but a step to the Munitions Toronto Fair wiven whe building at ou exclaimed Mollie, "wwhat is the worl coming to!" And then and there the horrible old war, which we had for looking at hittle in the interest of force. There were shells and explosive of all kinds, thousands upon theusand of them, guns taken from the Germand and a model of an airship fitted up with cannon, but what interested us most was a big brass, "real live torpedo, "whitehead" model-Whitehead, I understand, was the inventor. What an absolutely fiendish thing it is, cigar
shaped, with a little gyroscope shaped, with a little gyroscope affair a
its nose. Inside it is divided into thre compartments, one filled with explosives, one with a mechanism to control the the and the third with one to contro could quite understand how such thing could sink a ship, and one re membered the Lusitania, the Hesperian and the Royal Edward. Speaking of
the last, a letter came to-day, from Kit, the last, a letter came to-day, from Kit,
who is now in France. She was in Alexandria, you will remember, this time "last year. "Just a year ago to went down. How well I remember the day she steamed out of Alexandria Bay. She was loaded right down to the water's edge, and as she passed us we could hear the boys shouting, 'Are we downhearted?' followed by a big 'No!' How many many things

## The Railway Building.

$\qquad$ sources of your country. With walls
$\qquad$
$\qquad$
quickly back, and the whole scene was lighted to represent, alternately day and night. A model of the Bassano dam, east of Calgary, also attracted irrigaten. This great dam, it is stated, . . The G. T. R., in the thir compartment, chooses to illustrate the continent rather by a series of photos. In this department an interesting de tail was a model of the Twin Screw Coast steamers, "Prince Rupert" and

The Manufacturers' Building.
Peeping into the Dairy Building, where bright-cheeked young folk ente with zest into the butter-making com petitions which show how butter of daintily and deftly me made quickly Manufacturers' Building where to th thing one could possibly need seem to be on exhibit. Of course the whol place is just one vast advertisement the various firms, but one "gets on to" many new ideas in going through it. Now that hydro-electric power is
becoming so general, an electric heate at $\$ 7$ to $\$ 12$ was interesting, along with the other electric appliances which Doubtless it will comparatively easy these things are possible to the ma jority of you farmers.
In the furnished rooms
that was very practicable saw little folk who have to think of money "Marble tops". seem to be becoming popular again in bedroom pieces, but they are inlaid, as were, with grass-cloth wall We liked the Japanese grass-cloth wall covering in the Murray fitted table arrangement much, also a or a big Davenport-Davenport backs are usually so unattractive when ex in a as they sometimes need to Companye room. . . . The Simpson Company scored in showing a moder


Girls in a Great London Store Who Have Formed a Fire Brigade
kitchen, completely equipped with labor saving appliances, the whole roon and so easily cleaned, with its gray, children's "bluebird" play-rooms. A also a feature of this exhibit. The
Eaton Company's living-room ran wholly what woman doesn't? Of course there
were dresses and dresses- dozens of them-in every conceivable color or
combination of color, with sheer effects predominating wherever pheer effect Georgette crepe being still, possible
sight one would think the war was exercising an effect in economizing on
cloth-the skirts are cloth-the skirts are so short. But taken off the bottom is put Every inch taken off the bottom is put on at the in the fashion papers of we may read "slenderness of silhouette," every model shown is as billowy and bouffa as in the wildest epoch of the Victorian age -wildest in extravagance, I mean, of course. One would think that, in war time, with "thrift" urged on cvery
side, waists should side, waists should be demure as those of Puritan maidens, skirts narrow even to the splitting stage as they
were three years ago. But never bit of it! And to make matters worse fur is cut up and used as trimming not only on suits but on the sheerest wicked eving dresses. I do think that wanced, don't you?. . . Speaking of gown dresses, we saw one wedding in which the skirt was call that fancy) length, but skirt was barely ankle trailed on the -there was a train that to the end of the train the veil reached a funny combination, too tail-like to suit me
The long coats, however barring rather too much waste in the skirt portion, were rather nice and sensible, most of them provided with big sensible tikerm-collars. And the hats, too, I liked, of all sizes, graceful in shape a touch to relieve the paine with just look as theugh the plaimness. They enough for war-time should be cheap can tell. I priced one dear simple thing in a down-city store and it was just sixty dollars! I gasped-and turned An exhibit that interested us very much was that of rag rugs, shown by the Toronto Carpet Mf'g. Co. Here were some lovely rag rugs. with rose borders actually woven in at the ends. both wiet green one and a gray one, were particularly roses across the end were particularly beautifuly All the The Women's Builling
I love fancywork, but I always wonder when I see so many fine stitches, whether eyesight will not have to pay in fancywork exhibits are usually much the same from year to year, but we crochet nightdress top with bell sleeves, also of the crochet, was very pretty, Glet, with being chiefly of the plain filet, with a bit of design across the
front and at the edge of the sleeves. had been done by Mrs. McNab Drayton had been done by Mrs. McNab, Drayton
Ont. We also noticed particularly some lovely Maltese lace collars made by Mrs. Thornley, Toronto, and some very pretty bags made of pumpkin
seeds and steel beads, with satin lining. Other items were a lunch-cloth of linen ork. or, a luncheon set done in blue crochet insertion: a pique quilt trimmed with crochet: and a pique quitt trimmed embroidered with the names of soldiersan interesting souvenir of the war. two woven ones in blue and white, and gray and white.
Mollie, teacher that she is, was very enthusiastic over the art work, needlework and cookery contributed by children.
was such a lovely day, that on which we left Toronto. On the way to Hamilton where we had to change cars, we watched and at one point an aeroplane, looking exactly like a big dragon-fly ćame from over the water and passed directly over our train. A gentleman kindly explained that they were to be seen there at any time, because of the aviation training school near Port Credit somewhere
Aviators training for the war Margaret, dear, las often think of your brave, brave lads in khaki. Bles
them every one! And when you and I meet at "Toronto Fair" nest year as you have promised, may the great hang over it and over us all. Write very soon to your little "foreign

## Hope's Quiet Hour.

The Wonder of God
Justice standeth afar off: for truth is fallen in the street. and the
LORD saw it, and it displeased LORD saw it, and it displeased Him
that there was no judgment. And He saw that there was no man, and wondered that there was no intercessor -Isa. 59: 14-16. He marvelled because of their unbel:ef.-S. Mark 6: 6 In the chapter from which our text is taken the prophet speaks of the horrors of wickedness and injustice
which make men grope for the wall which make men grope for the wal like the blind, in the thick darkness of despair. Yet, he says, the LORD S save: neither His ear heavy, that it cannot hear
God is now, as then, a sure Refuge in the time of trouble. We know this -are we keeping our eyes and hearts distracted children, who profess to believe in Him and yet seek His help only when all earthly hopes fail. We say that a sick person is in a "precarious"
condition when he is very ill, but that unusual word only means that he should be prayed for. It comes from a Latin word meaning "to pray". friends when they are in extreme peril? God knows what is in man, yet even He -the prophet has declared ntercessor, when the darkness of awful sin and misery had blotted out the So our Lord, when He came into His own country, among the people
who knew Him best, marvelled" because of their unbelief, and that unbelief. "He could mercy by o mighty wo A few days ago a young girl told in a hospital in an English city, is writes often about going to church that only about half a dozen people usually come to that service in the church he attends. A city church
in England, and nearly every family Don't you think such eves presition unbelief must amaze the angels? my flesh, and drinketh my blood welleth in me, and I in him.-S. John who ever liveth to make intercessio or us. He is the "Righteous Man!" much (S. Jas. 5:16.) Are we graing
to refuse His offer to let us share that refuse His offer to let us sharc
glorious intercession? Don't we want to dwell in Him and have weak prayers may also prevail mightily In the eighth chapter of the Revelatio of St. John we are told of the ange Who offers the prayers of all saints
upon the golden altar before the throne The those prayers do not stand alons The angel was given "much incense
to offer with them, and the smok Gor" the incense ascended up before Our Cireat High Priest has provided the "much incense"-His own mighty
intercession is He still marvelling
over our unbelief, still wondering that us that our soldiers are beseeching us
there is no intercessor?
Do we want to rouse Divine wonder? to pray for them-to pray unceasingly Then let it be to rouse Divine wonder? than our it be by our faith rather than our unbelief. A Roman soldier showed such absolute trust and humili-It was outside His marvelled at him." that this unshaken confidence in His power to heal was found. Sometimes such wondrous faith is seen to-day. One day this week I visited a woman who is helpless and blind. She can move one hand a little, but has no expectation of ever beirg any better


Armenians Rescued from Turkish Massacre and Now in the United States.
in this life. Her face is as full of that so few are gathered together to gladness as the face of a happy child. pray for those in peril on the earth She talks joyously of the life after death, her blind eyes can already see which life is hidden with Christ in God, and t shines with unearthly beauty. That case is rare. I am afraid very few of us are causing our Lord to
marvel and say: "I have not found o great foith, no, not in Israel." Hebrews said: "Pray Epistle to the I beseech you to do this, that I may be restored to you the sooner." sooner "Whay be restored to us the the war will end. But let us who be lieve in prayer see to it that it is not prolonged by our neglect."
In the church I attend we have had a daily service of intercession fo our soldiers ever since the war began
Is the charch crowded? Well, ou Lord has promised to be "in the midst" when two or three are gathered to gether in His name ${ }^{\text {B }} \mathrm{He}$-the Great Intercessor-is there. Is He marvelling pray in the the in peril on the earth
and in the air, sea and under the sea?
We hear that Russia, France and rta!y are on their knees." Can pray for whom thou lovest; if The treasures of the boundless deep, the riches of the mine, Thou couldst not to thy chcrished As the earnest benediction of a deeply prayerful heart.

This is a secret service. Only you and God know whether you are interceding may kneel in the attitude of prayer and yet your mind may be engaged in very earthly pursuits-thinking about the crops, perhaps, or considering the important subject of "clothes." On the other hand you may be plough ing a field or scrubbing a floor and your intercession may be rising, in conscious Great High Priest mind incense of the But perhaps you are thinking: "Oh I am dreadfully busy just now. When harvest is over, and the threshing done there will be time for things of that sort. Why, I have no time in the morn ing to pray even for myself, and I am too dead tire at night."
Then it is evident that you consider prayers of little consequence as compared be done first, and then business mus you feel like , Yet the wil pray of everyone is to bring this horible slaughter to a righteous and lasting finish. Unless our faith is founded on a lie we can help the cause of foght eousness by our prayers. If we fail to use the mighty power offered to us, we are like millionaires who will not use their money to help the starving. "The Lord's hand is not shortened, that it cannot save; neither His ear heavy,
that it cannot hear: But your iniquities have separated between you and your God, and your sins have hid His face from you, that He will not hear," said the prophet Isaiah. It is not enough to speak words of prayer. It is the fervent prayers We must worship God; instead of setting our hearts on riches or comfort, on human praise or earthly pleasure. feet and climb the Ladder-Christ Himself, who is "The Way"-to kneel before the Thronc.
As for "having no time to pray," God doesn't demand long prayers. It is quite possible to pray while running a machine, peeling potatocs or washing
dishes. "Stonewall" "I never "Stonewall" Jackson said: lips without a prayer for God's blessing I never seal a letter without putting I never seal a letter without putting never change my classes in the section room without a minute's petition on the cadets who come in
At the foot of the Throne you can win help and protection for those who are laying down their lives for you. bring out spiritual and physical blessings


British Wounded Arriving at a Dressing Station on a Trench Railroad.


## Fashions Dept.

Order by number, giving age or
measurement as required at least ten days to receive pattern Also state in which issue pattern ap peared. Price fifteen cents PER PATTERN. If two numbers appear for the one suit, one for coat, the other
for skirt, thirty cents must be sent. Address Fashion Department, "The Farmer's Advocate and Home Magazine," London, Ont. Be sure to sign your name when ordering patterns Many forget to do this.
When ordering, please use this form:Send the following pattern to:
Post Office
County ...
Province Numb...........
 Measurement-Waist................Bust...... Date of issue in which pattern ap


881,3 Norfolk coat, 34 to 42 bust.
8796 Plaited skirt with yoke,
24 to 32 waist.



8845 -Girl's Dress, 8 to 14 years.


8571 A-Two-piece Skirt, 24 to 34 waist.

青 9



## The Windrow

Great Britain's total appropriation
for war purposes during the for war purposes during the past two years has been $\$ 14,160,000,000$. Part-
of the amount was advanced to her
Allies and overseas dominions. Allies and overseas dominions.

In no former war have the animals played so large a part as they have in this now raging. Besides the horses, mules and oxen, there are the dogs:
serving in many ways, the cats ridding the trenches of rats and mice, the carrier pigeons, and even the white mice of of the submarines, which are taken
aboard to give warning of aboard to give warning of any escape
of gas.

Britain the past two years Great territory. With the French and Boers she has taken all the German colonies Africa; with the Japanese German Eas tralians, she has taken all the German islands in the Pacific; Egypt, the Soudan and Cyprus, formerly nominally of the British Empire; the southern part of Persia and a considerable part of Arabia are now acknowledged to be under British rule.

Miss Flora Sandes, an Irish woman is serving a a soldier in the Serbian
army. At the beginning of the war she enlisted as a nurse, but afterwards went into the ranks as a private. She has been made a sergeant.

Scientists have determined by carefu computation, study and investigation
that the farmers and fruit growers over this country are losing oyer $000,000,000$ a year by reason of the reckless and senseless destruction of birds during the past thirty years, says
Colonel G. O. Shields. The cotton growers of the South are suffering a loss of $\$ 100,000,000$ a year
by reason of the ravages of the boll by reason of the ravages of the boll
weevil, an insect that bores into the
cotton stalk and kills it. Why? Becotton stalk and kills it. Why? Be-
because the quails, prairie chickens, meadow larks and other birds, which were formerly there in millions, have men and boys.
The grain growers are losing over work of the chinch bug. They are losing another $\$ 200,000,000$ a year on account of the work of the Hessian fly. Both
of these are very small insects, almost miscroscopic in size. It takes 24,000 chinch bugs to weigh an ounce, and nearly 50,000
an ounce. ${ }^{\text {an }}$ ounce.
is no way on earth by which these insects can be destroyed except for the people to stop the killing of birds, absolutely and at all times, and let insects.-Our Dumb Animals.
slough of despond "emerged from the to me not long ago. "For more than a month I was forced to loaf, and if there is anything worse than that I don't Every morning when I wake I know that I am needed at the office. It is great to be needed-even by an office." When he passed on I thought of what every morning," said he, "that you every morning, said he, "that you you like it or not. Being forced to
work, and forced to do your best, work, and forced to do your best,
will breed in you temperance and self. control, diligence and strength of will.
cheerfulness and content and a hundred virtues which the idle will never know. Character. * * *
Prof. Elie Metchnikoff, who died this summer in Paris, will be remembered
in the scientific world for his discovery of the scientific world for his discovery
of the reason of inflammation, also for his theory-now generally accepted by physicians-that the white corpuscles
of the blood are useful in overpowering dangerous microbes. Of late years he spent much time investigating the
poisons engendered in the, intestines, the putrefaction of matter in the large

## - T $\rightarrow$ The Name That Stands for QUALITY in Farm Machinery



Lister Engines $\begin{aligned} & \text { Famous all over the world for their superiority in design, } \\ & \text { workmanship and construction. } B \text { rritish biolt buit throu hout }\end{aligned}$ Lister Threshers $\begin{aligned} & \text { Thousands of farmers are threshing their own grain } \\ & \text { this fall. Call and see the Lister Thresher, on onarated }\end{aligned}$
Lister Silos and Ensilage Cutters ${ }^{\text {The best silo and silo-fling }}$ outfit that monev can buy
Ten-inch and 13 -inch fillers, with blower operated by 5,7 and 9 hat monesey can buy.
Lister Milkers Are in use ell over Canad.
Spraying Outfits We have the simplest and most compact Spraying Out Melotte Separators Used by voer 50,000
R. A. LISTER \& CO, Limited, TORONTO winnipeg
ouebec
ST. John, N.B.


Ottawa Demands Milk up to Standard Other Citites will Fall in Line. demand if you have Ayrshire
blood in your herd. Now is the time to buy a pure-bred Ayrshire sire or a foundation female.
We'll gladly send you infornation.
$\qquad$


HONEY


1915 THREE-SPEED INDIAM
intestine. The use iof sour milk, he
held, would help to hold such damage in check.
Sir Rabindranath, Tagore, the famous
Hindu poet, to whom was awarded Hindu poet, to whom was awarded
one of the Nobel prizes for literature one of the Nobe prizes for literature
is lecturing in the) United States. He is lecturing in the United States. He men in the world, and comes with a distinct message from the East to the
West. Our materialism, he says, is West. Our materialism, he says, is
preventing us from really living or preventing us from really life.
sounding the true depths of life.
"fhe largest commercial water-lily D. C., and is managed by a woman, Mrs. Helen Fowler. She ships 2,500 water lilies every morning in midsummer. Mrs. owler is an expert hybridizer,
and has originated several new varieties

It is waste to light a big or little cigar when none at ant will do, and the extreme abandon his, habit is insisted user may by Sr. Robert Abbe, senior surgeon of paper read before the 'Practitioners'
Society of this city and Society of this city and printed in The
Medical Record (New York, Medical Record (New York, January
29). Dr. Abbe strongly opposes the use of tobacco. We live, he says, in a temperate climate, where the weed's
stimulating, effect is not needed, and the
familiarity that we have gained with familiarity that we have gained with
it during the last three centuries is responsible for much of the "nervous overactivity," as he terms it, for which Americans are becoming noted. Its use ing, treating, spitting, chewing gum," and ing, treating, spitting, chewing gum," and essential to it. We had better all give it up, he believes; and fortunately we
shall have have no trouble in doing so.

No nation can long be called efficient which fails to advance the general life of ever-increasing wake of ruin and irreparable loss, Germany is fast losing her 'place in the sun,' and stands as the horrible example of utter failure along
the avenues of real world service. That she is powerful none can deny; but that her strength is of the eternal type is daily becoming more doubtful. In a
sense she has been efficient, but for fundamentally wrong purposes; and,
unless the unexpected is bound to undermine her own founda tions and find herself less respected and both morally and physically weaker than before the conquest of Alsace-Lorrain
-The Outlook, N. Y.

Radium's Tremendous Energy Sir Ernest Rutherford, the distingulished
scientist, has been pointing Manchester, the tremendous energy, in up in radium. If it were only Jet loosed Speaking of the intense energy con-
tained in these substances, Sir Ernest
said that what scientists. said that what scientists wanted to
ascertain was how we. could release at
will the energy will the energy contained in radium and utilize it for our own purposes
If that energy could be made If that energy could be made available we
should enter upon a new era should enter upon a new era in the supply
of cheap energy, because it had to be
borne in mind that in relosing energy at any rate we desireasing it would
be possible for one pound of the material to obtain as much energy practically Fortunately at the present time we had
not found out a method of so dealing with these forces, and personally he was wery
hopeful we should not disole man was living at peace with his neighbor. covered that we could accelerate these
influences. $A^{\text {we }}$ few hundredweights of
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ limited life, disapparing and giving rise
to a series of other substances. In radiun to a series of other substances. In radium
and other radio-active substances we


#### Abstract

nature, the actual cause of the tral formation of matter. It was not a we could influence at all; it hat a cal been going on in nature and in the flititory of this planet. Radium was several million thimes more active than the mineral from which it was derived improvement had been made Enormows study of the properties of these radio active substances, and the separation commercial scale. intensity Ernest gave demonstrations of the and showed their action on a photograplic, plate, and the phosphorescence they neighborhood of certain salts. Radias from radium, he said, was ten time more penetrating than any penetrating radio-active substances of. Radium and interest from the scientific enormous view, and recently they had been point of greatly from the medical standpoint in hester Guardiant certain diseases.-Mall


## Current Events

Brantford, Ont., druggists have de prescriptions. handle liquor even on

On September 6th fifteen Allied neroplanes bombarded Brussels. Only ne was brought down.
At time of writing the only reports essant artillery bombardments are of inAllies arlding bombardments, with the making some advances own and even It is believed that the British Division may, at an early date, push an offensive into the Lens- Iille district, with the intention primarily of occupying a large number of Germans there, and so helping to prevent the Teutons from Following their usual tactics, the Telltons and Bulgars have thrown a strong offensive into Roumania and have with an inefficient resistance because of the fact that the greater part of the Roumanian army is engaged in Transyl/ vania; but the Russians are rapidly Roumania and are also sending dow assistance from Bessarabia; hence the enenty in Roumania may soon find of going to press the Bulgars have take Silistria, an important town on the lower Danubs

## The Dollar Chain



WAR LOAN
DOMINION OF CANADA
Issue of $\$ 100,000,0005 \%$ Bonds Maturing 1st October,' 1931. PAYABLE AT PAR AT
OTTAWA, HALIFAX, ST. JOHN, CHARLOTTETOWN, MONTREAL, TORONTO, WINNIPEG, REGINA, CALGARY, VICTORIA.
INTEREST PAYABLE HALF-YEARLY, 1st APRIL, 1st OCTOBER. PRINCIPAL AND INTEREST PAYABLE IN GOLD.

ISSUE PRICE 97눌
A FULL HALF-YEAR'S INTEREST WILL BE PAID ON 1st APRIL, 1917. THE PROCEEDS OF THE LOAN WILL BE USED FOR WAR PURPOSES ONLY.

The Minister of Finance offers herewith, on behalf of the Government, the above named Bonds for subscription at $97 \frac{1}{2}$, payable as follows:-

$$
\begin{aligned}
& 10 \text { per cent on application; } \\
& 30 \\
& 30 \\
& 27 \text { "" } \\
& 27 \frac{1}{2} \text { " } \\
& \text { al atlotment of botober, } 1515 \text { th Novernber, } 1916 \text {; December, } 1916 \text {; } \\
& \text { alds of this issue will }
\end{aligned}
$$

The total allotment of bonds of this issue will be limited to one hundred million dollars exclusive of the amount (if any) paid for by the surrender of bonds as the equiva-
lent of cash under the terms of the War Loan prospectus of 22nd November, 1915.

The instalments may be paid in full on the 16th day of October, 1916, or on any instalment due date thereafter, under discount at the rate of four per cent per annum. credit of the Minister of Finance. Failure to pay any instalment when due will render previous payments liable to forfeiture and the allotment to cancellation.
Subscriptions, accompanied by a deposit of ten per cent of the amount subscribed, must be forwarded through of any chartered bank will receive subscriptions and issue provisional receipts.

This loan is authorized under Act of the Parliament of Canada, and both principal and interest will be a charge upon the Consolidated Revenue Fund.
Forms of application may be obtained from any branch in Canada of any chartered bank and at the office of any Assistant Receiver General in Canada.
Subscriptions must be for even hundreds of dollars.
In case of partial allotments the surplus deposit will be applied towards payment of the amount due on the October instalment.

Scrip certificates, non-negotiable or payable to bearer in accordance with the choice of the applicant for registered or bearer bonds, will be issued, after allotment, in exchange
for the provisional receipts.
When the scrip certificates have been paid in full and payment endorsed thereon by the bank receiving the with coupons attached, payable to bearer or registered as
to principal, or for fully registered bonds, when prepared, without coupons, in accordance with the application.
Delivery of scrip certificates and of bonds will be made through the chartered banks.
The issue will be exempt from taxes-including any income tax-imposed in pursuance of legislation enacted by the Parliament of Canada.
The bonds with coupons will be issued in denominations of $\$ 100$, $\$ 500, \$ 1,000$. Fully registered bonds without coupons will be issued in denominations of $\$ 1,000, \$ 5,000$ authorized multiple of $\$ 5,000$.

The bonds will be paid at maturity at par at the office of the Minister of Finance and Receiver General at Ottawa, or at the office of the Assistant Receiver General at Halifax, St. John, Charlottetown, Montreal, Toronto, Winnipeg. Regina, Calgary, or Victoria.
The interest on the fully registered bonds will be paid by cheque, which will be remitted by post. Interest on bonds with coupons will be paid on surrender of coupons. Both cheques and coupons will be payable free of exchange
at any branch in Canada of any chartered bank.

Subject to the payment of twenty-five cents for each new bond issued, holders of fully registered bonds without coupons will have the right to convert into bonds of the
denomination of $\$ 1,000$ with coupons, and holders of bonds denomination of $\$ 1,000$ with coupons, and holders of bonds
with coupons will have the right to convert into fully registered bonds of authorized denominations without coupons at any time on application to the Minister of Finance.
The books of the loan will be kept at the Department of Finance, Ottawa.

Application will be made in due course for the listing of the issue on the Montreal and Toronto Stock Exchanges

Recognized bond and stock brokers will be allowed commission of one-quarter of one per cent on allotments provided, however that no commission will be stamp in respect of the amount of any allotment paid for by the surrender of bonds issued under the War Loan prospectus of 22nd November, 1915. No commission will be allowed in respect of applications on forms which have not been printed by the King's Printer.

Subscription Lists will close on or before 23rd September, 1916.
Uepartment of Finance, Ottana, September 12th, 1916.

## CALDWELL'S



## AFully Balanced Meal-Ration ForMilkingCows

Dairymen have found that Caldwell's Dairy Meal increases the milk flow of their herds (both winter and summer) and at the same time keeps them in good physical condition. They have found our meal to give uniformly good results ton after ton and year after year. Here is the reason-

## Caldwell's Dairy Meal

is prepared by Canada's foremost feed analystsmen who know from experience both the practical and scientific feeding value of foods. They blend into Caldwell's Dairy Meal the proper quantities of the different foods. The result is that our meal is pure, palatable, balanced in its food content and easily digested. Caldwell's Dairy Meal (when fed the year around) supplies the "missing link" between an unbalanced and a balanced ration. ANALYSIS-Protein $\mathbf{2 0 \%}$, Fat $\mathbf{6 . 3} \%$, Fibre $\mathbf{1 0 \%}$

Secure CALDWELL'S DAIRY MEAL from your feed man or write direct to us and we will supply you promptly. Shipped in 100 lb . sacks or ton lots.
The Caldwell Feed \& Cereal Co., Limited Dundas, Ontario
MAKERS ALSO OF
Molasses Meal, Substitute Calf Meal, Molasses Horse Feed, Poultry Feeds
STANDARD FEEDS


Keep Your Live Stock Healthy




## Haralb-Davies 

Women's Institute Con vention, Prince Edward Island.
The third annual convention of the Women's Institute of Prince Edward
Island was held in Charlottetown, July Island was held
27 th and 28 th
27 The attendanc
delegates present from all the After enrollment the proceedings opened with the singing of "O Canada." An address of welcome was then delivered by
the Commissioner of Agriculture who
referred to the referred to the work done by the ins-
titutes for the Red Cross and other tituted for the Red Cross and other
patriotic societies and for the shools, and patriotic societies and for the schools, and
was replied to by Mrs. C. L. Barnes, was repliet to by Mrs.
of Georgetown, who spoke of the close connection between the institute wor
and the Red Cross so many husbands and brothers of the members are enrolled in the service of the country
that the work naturally part of the same and it is hard to and
and where it begins or ends. "Home and Country" is the motto of the institutes, and the endeavor is to live up to this
slogan. The reports of the Secretaries of the different institutes were then photographed and adjourned to the Experimental Farm.
At the
At the evening session Professor
S. ${ }^{\text {B. }}$ McCready gave an address S. B. McCready gave an address on
"How Country Life May Be Better Served in our Schools," supplementing his remarks with lantern views showing schools in Ontario as well as in Prince
Edward Island Miss Belville, Ontario, spoke on "The MotherWhat she Owes to Herself, Her Home, Her Community." She spoke under the
following heads: 1, Full Development following heads;
of the Mother's of the Mother's Natural Powers;
Rest; 3, Recreation 4, Respect Rest; 3, Recreation, 4, Respect. The
last speaker of the evening was the
American Consul, whose sich tis American Consul, whose graphic discription of the Southern States was a
masterpiece of scholarly diction masterpiece of scholarly diction. Walter
On the following morning Mrs. Simpson of Bay View read an excellent paper on "The Influence of Flowers," which was much appreciated. Miss
Hunt, Secretary of the Handicraft Guild of Summerside, gave a pleasing talk of the work done along the different handi-
craft lines in Quebec, and illustrated it with an excellent display of mats, table covers, bed spreads, etc. This
proved one of the most interesting talks Miss Guest then led
the "Work of Institutes" which was taken part in by Mrs. (Premier) Mathie-
son, Miss Dutcher Thas son, Miss Dutcher, Teacher of Household
Science in Prince Mrs. (Col.) Ings and others. The singing of the National Anthen
brought to $a$ close an interesting and brought to a close an interesting and
highly profitable Convention.

## Aunt Priscilla, N. D

The "year-old housekeeper"" called
her husband to read the letter with her. "Dear Housekeeping Lady: Dear Housekeeping Lady
"If there is anything
that needs mending, will youl nout get it hat needs mending, will you not get it
together and let me fix it? I I shall
esteem it esteem it a favor to spend a day in
your sewing -rom, for I am an old lady
with nothin with nothing to occupy my time. housekeeping lady. "She gasped the be welcome." And a certainly will later she read aloud her reply: minutes
"You most assuredly w.D. will be wel.
come. How will the come. How will the day after to-
morrow do?
"What does Ne
$\qquad$

## Next morning brought this card: "I shall be with vou by nine

N. D. stands for-DDoctor of of Needlest,
The housekeeping lady looked apolo getic when Aunt Priscilla arrived.
"This seems like a dreadful lot of things and I expect most of them are past all mending. There are always so many
things to see to which are more important, the the which are more im-
lots of times. But it is has certainly dear of you to offer to help." "ertainly dear Aunt Priscilla opened her bag and
took out her spectacles and thimble
with a smile ."I
lieve in in my profession, but it the bor there is hardly anything about the hous keeping that is of more importanc than the mending
and yave been, mending for years appear as a practicing 'N. D.', "dare "Teach me about it if you can," offered the niece, with a laugh, " can, have
al ways the always thought mending
moved from a profesion

$$
\begin{aligned}
& \text { moved from a protession }, ~ \\
& \text { "To }
\end{aligned}
$$

"To begin with," began the Docto of Neerles cheerfully, "always divide:
pile of mending int pile of mending into two classes-the
garments that are still so serve the most careful mending, and those in which there is still some wearing quality, but no beauty. Careful them practically as food as new make attention to garments in the second class would be a foolish waste of time and patience.
"Here, we will take these two petti-
coats, for instance. ly good and new. This one is perfecty good and new except where the lace
is torn on the flounce. With thread of the same size weave in the pattern using your embroidery hoops to keep
the work flat. It may take half hour, but the skirt will then be half an as new; otherwise it is a 'ragguod garment, and soon past mending. Nogged is several petticoat with a torn band present-day fashions,
"Yes, it's always hanging below my housekeeping lady
And the material is old and tender to replace the band and waste of time unnecessary fulness piece out the torn band and you can wear it mornings under your house
dresses or in taking count "And save my country walks. an idea, certainly. This mended place In the lace isn't going to show; I thought 'dest.' You've a new petticoat for best.' You've already saved me three of "Needles.'
"is a My motto," continued Aunt Priscilla is a very old and trite one, with variations, but ${ }^{\text {It }}$ in mish you would bear money, time and patience.'
"Here are some wash ribbon in your gauze vests and underwear, so that it need not be re moved for laundering, and after adjustfront or back securely in place at the never gets pulled out or lost be; it and the garment will never be de "Your husband wears out the hels of his socks, when getting new ones
darn the heels with a single thread of cotton before letting him wear them This will not show and they will wear much longer.
"Always re
made garments beew the buttons on readyhey gre never fastened strongly, and there is seldom a button to match
when one comes of "I've a drawerful of old shirt waists I have a mind to bring out," hesitated fit to wear, and I've hated to throw them away." Aunt Priscilla received them eagerly. "Here are two lovely, sheer ones," she said after some study, "where the ma-
terial has given way under the arms, terial has given way under the arms,
which will mend beautifully, Place a piece of very thin material under the thin place and then stretch it in your
hoops. Now darn back and forth on the right side, with a fine thread, going through both materials; cut away the
new cloth at the back close to the darning, and when it has been laundered the mend will hardly be noticeable. This pile of waists are worn out in
collars and cuffs; cut away the worn portions, finish the sleeve bottoms and the round or square neck you have cut,
with odd lengths of lace or embroidery, or even plain muslin bands, and you have pretty and comfortable waists
for morning wear for only work. on the shoulder to be of further use on the shoulder to be of further use
as waists. If you will try them on
however, I will cut the low and cut out the sleeves, leaving just a strap out the sleeves, leaving just a strap
on the shoulder, attach to each one
of the nearly worn-out skirts, and

## How to Increase the Production of Food During the War

In June, 1915, the Secretary of State for Scotland appointed a committee to consider how the present production of food could be increased.

This committee duly met, and in their report the recommendation that was strongly put forth

## That BASIC SLAG should be more generally used for the improvement of grass lands

Testimony was borne by many practical witnesses to the increased numbers and improved quality of the stock that could be carried after the applica tion of SLAG to old grass and hill pastures, and the Board of Agriculture recommended very strongly
that farmers should greatly increase their use of this fertilizer. They also recommended that application should be made as early as possible in the autumn and winter to get the best results on the
following year's pastures.

## BASIC SLAG is equally needed on Canadian pastures, and will amply repay the outlay

Send us your name and address, and we will post you our
tons among your neighbors, our representative will give you literature, or if you think you could place a car load of 20
a call. Don't delay, as it takes time to get matters arranged.

## The Cross Fertilizer Co., Limited, Sydney, Nova Scotia

you will have convenient little slips What Bird Life Means to Us
for morning wear." "You fill me with wonder," sighed
the young woman, hastening to remove her dress for the fitting. It I begin to see, now, how I have wasted my good
things by wearing them mornings and things by wearing them mornings and
on every sort of occasion." "That is true, my dear. And you have also purchased cheap things for
morning when you had plenty of articles
in the in the house that could have been
mended and would havc looked better This little waist that I've just finished from one of those old ones looks much wearing this morning, and you might
"Seventy-five cents," meekly. "Why 'A penny saved is a penny earned'?" Aunt Priscilla laughed. "Let me give you some working rules
Spend less time in making new gar-
ments and more in caring for what
yout you already have.
Have a special mending place, with
materials of all kinds Mend whenever possible before sendRepair in time.
Wirl the out for new ideas-1 saw girl the other day who darns places at
the top of her fine stockings where she fastens her garters, to prevent the stitches her garters, to prevent the
the lenoth breaking and 'running' the length of the stocking. This not
only saves actual time, but money as "Your linen is still good. But when you notice a thin place appearing,
darn it carefully; do
not wait for it to wear through. rill come every
week, if you wish, and help you." "you have said the housekeeping lady, You have given me a greatepeping many Ideas,
and I I must work them out myself-I'Il
know know now where the go fort myself. -rill
need ideas or assistance
tor her start sease or assistance. Do go and
becoming other young, person toward
Cookery an N. D."

Bird life, meaning the common wild birds with which every country boy is
familiar, from the old black crow to the meadow-lark, blackbird, bobolink, and all the rest of the song-birds, is of
much more value much more value each year than the biggest
railroad system in the country The may seem to be a pretty broad state ment, yet it falls far short of stating the actual facts.
United States Government of the tab on the birds, what they do, what they eat every day in the year, and what their habits are, until now their lives are an open book. This work, done by our some very astonishing things be sides natural history, for it has been so thoroughly and so painstakingly done
that not only is the list of foods for each that not only is the list of foods for each
bird for the entire year tabulated, but the average bulk amount of each kind of food is known so closely that values in dollars and cents can be
reckoned, and thus the actual live value reckoned, and thus the actual live value
to the nation of each individual bird be easily computed.
For forty years I have made it a part of my daily life to watch and to study all nature, and especially to
study our common song-birds. has given me a great volume of accurate information, so that I have for years had a very good working idea of the value of bir
destroyers.
It remained for the biological survey, however, to get these things down to scientific accuracy because, where I was only one man, they put hundreds
of observers into the field, and thus were able to carry on a system of espionage that covered every State in the Union simultaneously. In addition to this they were able to bring in expert
scientific observers and laboratory men scientifc observers and laboratory men
whose life-business is the study of bugs good, bad, and indifferent. This system was organized, and the laboratory
men began to examine the crops of men began to examine the crops of
birds sent in by hunters from all over birds sent in by hunters from all over
certain insects were found (in whole specimens and fragments) in the crops
of many birds; certain other insects were found only in the crops of insects birds. Some crops contained only weed seeds of one kind or another; others contained a great mixture of seeds of
various weeds, and many others convarious weeds, and many others conThe seeds and bugs.
The strangest thing developed by this birds, long accused of being fruit eaters, and therefore detrimental to mankind, were absolutely cleared of the charge
because their diet is because their diet is almost entirely
insects with only here and cherry! Every robin is entitled to the few cherries he eats because without him there would be no cherries for anybody, for he destroys the insects that
destroy cherries, and when he is in cherry tree he is eating more insects than cherries.
Many other supposed-to-be-harmful birds were found to be just as helpful, and there is no guesswork about it
The common Bob-White quall, killed all over the country for sport, is worth own year considerably more than his destroys harmful insects (like the potato bug, chinch-bug, and others) enough weight in tore than the value of his own Remember that each and the farmer. is worth that for bug destroying alone, to say nothing of the weed seeds he with a flock of quails on his land should protect them because in doing so he is saving money for himself and the crop supply for all.
If it were not for the
tail swallow we could not raise a cotton crop in the United States, simply because the food of the swallow in its migrations over the cotton belt is the the insect in the moth or egg laying state, so he strikes at the weevil in his weakest spot.
There is not one single wild hird of any species one single wild hird
haten even excepting
haws and owls long killed on sight
by everybody) but what is of very great value to man, and every man, woman and child should protect every bird because it means a tremendous crop incr
Animals.

Ladybugs, the Gardeners' Friend.
The fladybugs, which are familiar to all, are very beneficial insects for the farmer and gardener, and should not They are all more or less hemispherical in shape, and red or yellow in color with black spots, or black with red, white or yellow spots. When in the larya, or grub state, the ladybug is a
curious-looking, soft-bodied worm-like affair of bright colors, that is more or less well covered with warts or spines. In either the grub or the beetle conthe plants, looking for the plant ove and other soft-bodied insects and in sects eggs, which they devour, apparently, with great relish.
The value of ladybugs culture has been ladybugs to hortion the Pacific coast. At one time the citrus-fruit business was threatened with extinction by the cottony-cushion
scale. The introduction of an Austalia ladybug, which feeds ion of an Australian scale, removed this grave source trouble, for as soon as the ladybugs became numerous the scale was held in
In the East, there are several common kinds which are frequently found uion both wild and cultivated plants. They should never be disturbed, for they are almost always on a good mission. One species when in the larva state will for herbs. You can tell him easily, forked spines, and is partial to squash There is one of these ladybugs which requently gets into houses and which here in some secluded corner. In the spring it is found on the walls or windows and, mistaken for the carpet


To offeret the high price of gasoline. the best engineering talent in the world has perfected light-weight steels and scientific body construction Despite itsscarcity, aluminum is large-
ly usod. Weight reduction has been accomplished in every part of the car except the top
All that
found in

## $R$ AYNTIT

Single Texture Topping It is guaranteod ooe year agginst
lookeage
No too hasa
finer appoarence, end althoogh light in weight, it ham the required strength and is made to lastas as long as the car. Spocify RAYNTITE Single Texture
Tooping for your 1917 car Topping for your 19 ch car or re-top
your auto with this guaranteoed, light? your guto with this guaranteed, ligit

DU PONT
Tabritoid
COMPANY
TORONTO


There is yet time to
The Premier Perfect Silo
Is Worth Investigating


Built of No. 1 Norway Pine, bound with
steel cables. .t offers the biggest value in
the market to Sold on terms which are attractive and
which will interest yout
Mail a card to-day for information and The Premier Cream Separator C

## NOTICE!

This ladybug is reddish yellow, and
each iwing bover has one black
on it. The
 long and overed with black, white,
and brick-red scales. The back
alang along the sutures, where the thas
covers met, itreyular band red. scalese, This is is, perthaps, the mont most
distion distinguishing mark; at least it is the one most likely to be seen by the
thrify housekeeper.

## Nagging.

To correct the bad habits of others is nagging disposition is habit yourself. A comes from tired nerves, or from super sensitiveness, or from a too free indulgence in sharp criticism-which is likely to lead a person into a minute and harassing long as criticism life about him. So favorably either on the critic or on the criticized, it is beneficial; but when it in the one and of resentment in the other, it becomes nagging, and should
be dropped-even if the fault justly objects to continues toult that it The naggers and the nagged are, as a rule, extremely fond of each other You are not likely to nag any one that you do not care about. In other words, nagging is primarily a family custom,
and is chiefly pract ised between and wives, parents and children and brothers and sisters. A certain affection ate intimacy seems to be required for it. Few people nag their servants
even if the corners are seldom dusted and the silver and brasses polished endures such a state of things mistress she can, and when she can endure it no longer, she "makes a change."
Yet long-suffering mistresses are sometimes nagging wives and mothers their conjugal or maternal pride that in always striving to raise the standard of those that are dear to them. In the
same way, a man but he either tolerates or discharges
his office boy For each of us there are certain persons pains with; but we should take pains right tone of voice-in short, when
the feeling of affection has sufficiently observe this rule, those who have hitherto been the victims of our nagging may
soon cease to compel our forbearance.

their wariness by night, and will hold their own in the face of a candle while necks. Partridges seek a sheltered, dry
lying hollow in the fields and of twenty in the in diameter. The colder the weather the closer they roost; the birds on the edge have their breasts outward. Sometimes, by the way, it is unfortunate
for partridges and pheasants that the for partridges and pheasants that the flying to and fro. Having to force growth, a trail is left for the fox to follow home. The barn-yard fowl may walk from her nest when in captivity; but she resumes the habit of $⿴$ yring abroad

## OurSerialStory

The Road of Living Men. by will levington comfort.
Author of "Down Among Men,"" "Fate Kno
at the Door."
Red at the Door,", ARed Flecece", "Routledge
Rides Alone." Midstrame" "Child

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The old Master had gathered good men about him-valuable in their par-
ticular lines, mechanical and scientific and mining experts who had been
graduated both from technical schools and eldoradoes around the world. The than to management; but among the Romany had brought from the State -men from the lower walks, but with
a domestic ideal and a dream of independence. These had left their wome which kept them rather true to them-
selves. Among the fifty with Romany were a considerable number content with the declared themselves nings to date, as estimated by the Chief I found also that a goodly portion of th
undesirables had been asked to valuable bit of Romany foresight. Guayaquil were not home-makers. Even if they had been, there was too much
of gambler's insecurity in the air. The gold-seekers of Tropicania were drawing
more than wages. They had an interest
certain amount of stamina to support a dream of sizable fortune; rather a test of manhood, this. Romany was
naturally fitted, and possessed the hardening of a life training, to cope with the
spirits of men inflamed with large earnings, restless dreams and fluent chances. Most of these men were built naturally
for routine. The essential indefinitenes of their ultimate fortune in Tropicania and the secrecy of Romany's policy their minds to a suspicion of treachery of a gamester absolutely square fereor yes of the men down in the river-work While subordinate I had many friends Chances favored a reasonably good

```
lom
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felt that I should have on my hands,
The departure of fifty-odd men, with
o the grater glory of the ahsedounde
hings. The laugh, however, perfect
rippled along the river-bed . that
erminable first day of my command
nen were thinking and whispering. Th
they did not know and which It knew,
and fifty others knew. What was

## oo prevent me or one of the fifty from

 throwing the secret to Orion? Thevalley would then become a pen of
loot and slaughter. carnings of months, millions, Again, their
through some secret passage Romany and even the fifty betraving


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enses increased ving. The herefore, a, like Red rgely com.
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the rest for a monstrous division? was it out of the question for the fifty the black chapter by turning Orion
into the valley, to slay the betrayed? into the valley, to slay the betrayed? These were thoughts of death and dissolution; and steadily the fear grew by the way the fifty went forth.
And I felt these thoughts gathering about my head. I had come late and brought neither muscle, nor exper knowledge. I was one of Romany' secrets. It was hard for the miners, night I took the day's yield of yellow -and the men knew no more of it. I watched with an anxious heart for the day that should end my leadership.
Though Romany had conducted his Though Romany had conducted his was not at first suspected of containing the secret avenue of egress, it was in-
evitable that the combined thinking evitable that the combined thinking of the whole placer-crew should settle
upon this fact. I took Maconachie and a few others into the Vatican shortly the idea that whether it was there or not the way out certainly was not obvious, I found Maconachie deeply interested in the cistern. The truth is, one would
have had to wreck the old structure to learn its secrets.
ruin was the mountain wall of the with a thin tissue of stone, in no way corresponding, except in appearance,
to the three great outer walls, whose to the three great outer walls, whose
two corners were massive monoliths, two to three feet through. The lower of a size calculable only in tonnage, and fitted to each other so precisely
that a pin could not be driven into the jointures.
The interior of the Vatican was absolutely featureless, except for the
cistern and the original megalithic monument, - a huge undressed slab lying horizontally, and flush with the mountainwall. This was the altar-stone, the very heart of the Quichuan civilization.
Here the olden sacrifice had been made to the sun and fire gods. It had not been brought to the Vatican; the latter was a temple builded around it, ancient was not a remnant of Christian There Vatican niche sacred to the relics. The pagan
the old Master left for me on the night he vanished with the fifty.
First of all I read his gossipy monograph on Huayana Capac, the great on the shores of Titicaca a thousand years ago; of his favorite son Atahualpa,
and the boy's mother, the Princess of Quito; of his legitmate son, Huascar, given to the favorite. Wars of was two sons and their sons, great flights ments of empire-it was upon the waning Pizarro aboriginal campaigns that The ruins the Spaniards appeared. eval with the famous ruins of Tiahuana in Bolivia. The ancient Peruvians moved mountains, tongued and grooved great rocks; preserved in every temple
a subterranean arcanum for the priests. Every temple-door faced the priests. and overcame this handicap by making the portals narrower at the lintel than
at the threshold. This peculiarity found, was as inevitable in the old doors.
The monograph went granite hills were shaped; how steps
and tunnels were made: intimately with tombs, altars, sun-
dials, terraced fields, sunken gardens,
fountains, dials, terraced fields, sunken gardens,
fountains. It described the amazing
facility with diverted; and how earthquakes and
volcanic eccentricities were to use and ornament by these mighty
men of the rocks - these masters of the
Andes So I entered the Vatican with awe. and I stood alone before the altar,
which had run red with the blood of felt fairest sons and daughters. I
of this ancient utilizing the cunning strength ancient people-subverting its
lust of modern fort and mastery to the
the broken superstructure down through the altar-stone upon which the priests had tron behind, massive stone block, in which was a steps of huge size were hewn on either side. From the platform, the altarrock was waist-high to a man, and was The document holes of varied diameters. this feature, furnishing a chaty described ancient bores. A certain three, marked 3-13-43, in a peculiar system of enumeration, involved the entrance to filled with water as These were to be filed with water, as nearly as possible other but these three bores or any my mind after a moment's stear in and the water at hand. The lining of the mountain-wall was formed from great panels of trachyte,
taller than a man, and three feet wide The rock was dressed, the fittings perfect. In the lower tier, there were twenty panels. Number Seven from the north
was the door of the was the door of the passage. It was absolutely identical with the others So perfect was the inner arrangement that its use, former and recent, had left not the faintest trace of wear. I put my weight against this panel, and the mountain itself could not have felt again at the following paragraph of Romany's writing:
"The big trachyte, Number Seven, is hung on a horizontal bronze pin Unlocked by a certain exact water pressure, the weight of the hand against
the lower part of the panel is sufficient to swing it inward, and the upper half outward. . A pint of pper hal is enough for each of the three bores, but they must be filled as nearly as possible at the same time. Mark forty seconds the waur watch after pouring, while end of this interval the panel will yield to the pressure of the hand for a space of seven or eight seconds, but not longer No sound is heard from the withdrawing ocks. If this exact interval of seven the water-weight passing out from the lock-reservoir will diminish enough for the bolts to spring back to their origina position. Or if one presses too soon the bolts will not have unlocked. Wate placed in all the bores will never draw
the lock from the back of the Water placed in any one of the bores other than the three will clog the intricate arrangement of the inner passages in the rock-and no result will be obtained."
Here her
Here her father supplied a long personal note, regarding the manner in which -an extended and interesting story in itself. The links and clues he had followed showed me more than ever the character called the hours he had spent upon this writing. There was a jovial tenderness here and there; delicate
approaches to the fine intimacy so hard for men to express afield, but which we had approached. of many days in the Vatican, labor bringing his bridge-builders from the Pass to construct the great iron don This done, he had undertaken alone o test the mysterious directions in his possession. The chief trouble, he said
was to restrain his own scepticism. was to restrain his own scepticism. He compressed air; the bronze pin of the trick panel had been in a bad state of on the point of breaking Panel Seven with a charge of powder, but his patience
had triumphed over doubt, and the perfection of the original work had prevailed to bring success without this
destroying measure. Finally gaining destroying measure. Finally gaining
entrance, he had gone over the entire mechanism cleaning and oiling. the last, when the sun had crept fron the ancient priests had bent in "sacred" water in my hand and awe pervading my heart. for the second hand of my watch to mark off the forty seconds-then turned to Panel
Seven and rested my knee against the lower part. The great stone swung
noiselessly inward. Amply stocked with matches and candles, I glanced behind
at the silent deserted interior of the at the silent deserted interior of the
Vatican, and descended the dark stairway

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vault approximately which. was ten feet below the floor of
the Vatican. In the intense silence, I imagined from time to time, the
sound of running water. Before sound of running water. Before per-
mitting the panel to swing back (even
though the document assured me of the ease of opening it from the inside) I carefully examined the locking mechan-
ism, and found that the way out was ism, and found that the way out was
simple as turning a door-knob. In simple as turning a door-knob. In
this vault, I was told to store the daily yield of gold from the Calderon; here
Romany had kept the fortune which the fifty took away.
entrance, I was advise inner mountain until such time as necessary. I thought there was a bit of humor in the part passage. The locking arrangement of candle-light. I tried it sufficiently to find that the door would open; and pictured Romany laughing at my temp-
tation, thoroughly enjoying this Blue tation, thoroughly enjoying this Blue-
beared legacy. He refrained from commanding me not to explore the mountain
but intimated that it would be wisdom to forego this, except in case of extremity - such as his failure to return, and driving the men of Tropicania into the Vatican.
my own men, than from Huntoon' inability to hold the outer position.
In the fortnight following the parture of the Chief, there came no letters from Mary Romany, althoug
mail had reached us from the States I remember taking the gold into the day, in which I had felt a miserable of the men on the river, as well as the loneliness of a letter-less man.
It had been growing upon me from the
first, that Romany had made an impruder orst; that to rule well in such a capacity, I needed the years and reputation of the old Master of pro-
moters; or, without these, required moters; or, without these, required
more of the very hardness which Mary
Romany had wished the Year to elimin
$\qquad$ tended walks to the blocked gorge
and so I had taken the evening calls to the Vatican to concentrate upon the existence in the midst of suspicion and gold-tension, was a sort of nether-world
galvanized by under-men, gaivanized by under-men, creatures
condemned to certain endless material gold safely cached, I sat thinking long in the unbroken black, by the curbing
of the cistern, until the stress of the work of the cistern, until the stress of the work
to do at Headquarters drew me back.
An hour had passed. Supper had been utterly forgotten, and more important
matters. Hastily letting myself out of $\left\lvert\, \begin{aligned} & \text { the great iron door, and clanking it } \\ & \text { closed, I discovered the full night }\end{aligned}\right.$ closed, 1 discovered the full night, and
the row of lights by the river, with Dole's bar a garnet stud in the centre. A figure
lifted from the shadow down by the picket-line, and lightly over the evening
air with the scent of forage and trampled air with the scent of forage and trampled
turf, came a voice I loved among men:
"Hai-Rivers of Babvon

Huntoon at the Pass-had made poshoped to come this way. He had parted Srom time 1 reached Tropicania-slightly
same
less than a month after I had on the deck of the Doric in San Francisco
harbor, eight had gone up the Yellow River to estal)lish her mission for little Chinese girls. Yuan
had seen her once since- ten wesks ago had seen her once since- ten weeks ago--
for a day and evening. The Mission was prospering.
I.istening, I served him with my own
hands. I had forgotten the hands. 1 had forgotten the valley. We
had walked from the picket-line arm in
arm-his two servants behind broken the leads from a packet of choice
tea he had given me in China, and heated the kettle and the pot, brought the cups
and spoons; fresh fruits from libertad. olives and butter and bacon fibertad; the
glass; bread fresh from the valley ovens Romany had never been without a bit of
real wine. I have forgotten remotely what Maco-
nachie came in for. There were two or
three other calls at Headquarters that
ward. Huntoon said he would join us in
the morning. So I waited Kang Su, deeply absorbed and delighted Everything was ready before I remem hered that I had not supped; this made it
all the happier. Dan-with all the happier. Dan-with-the-gout, an old serving-man of Romany's, who had
taken care of my solitary table since the Chief's departure, glared with astonish "Come," said I at last, "we'll walk out together down by the river. Everything
is here for your boys. Dan will take of them." "your boy. Dan will take care "if we sat by, until they had their supper?" "I we sat by, until they had their supper?" they regarded the nobleman noted that we made ourselves comfortatefully, ai doorway of Headquarters. And so his story went on. it is the Oriental way
between friends, to between friends, to provide each other, ater extended absence, with a more or of the interval. I had begged him to speak They had not called him to trial at once upon his reaching Peking. He was
sent to Ostraso, a valuable tea island to head off the encroachments of the foreigners, and remained four months. With a depreciatory smile, he told me that hil work there had been catled brilliant, and Peking, he had received a decoration Shan Wo Kai was present at the Capital. "I found it was to fight for me that he the Throne in China make it a point never to forget. Thomas-" " on his lips, as he uttered the name. that I have to say with the these things that l have to say, with the coot under-
standing of a friend-not with the heated inspiration of the a postle of romance, know so well. What is done is done. 1 have come to you-a long, long way-to
be with you this night, because you are be with you this night, because you are my friend. A man's real friend makes the you not to try to change anything that has been done. Of course, that is imposA bird beat it would pain me for you to try. cage would be the same -" I felt again, as on that day we had
walked together in Washington-that his life was over, that the rest was not work, nor love, but empty, waiting.
In coming, I had to make myself believe you would accept the inevitable,
as I do. This hour has been worth the coming, and we shall have our talk of wo friends. If shall be very happy-if "What is this thing?
"That you shall not fall into rage nor misery at what you hear; that you seek
not to mend nor rend. . Do this for me, Thomas ren,"
"Thank you," he said. Glancing at the table, he saw, that his companions had shished supper, and added: "Now we The two Chinese followed us out, walking behind at a discreet distance. Their presence was a restless and altogether peculiar irritation for me. 1 avoided the
settlement, and we reached settlement, and we reached the river path "Shan Wo Kai did not tell me that he was fighting my battle," Yuan was saying.
"Back in the Forbidden City after Ostraso, they made me believe that I was a Daniel in the Imperial Court. Ou
friend the Ambassador in. speaking of my work on the tea island, said that I had imbibed American and European calling them good or evil, declared that since China was sorely menaced by the younger Powers, young men of my knowledge were necessary to show China foresaw to compete and combat. He of the old meditative Mother-land, if she did not arise and deal with the quickerwitted and quicker-handed peoples ac-
cording to the latters' methods. "I wish you had been there," Yuan would have been glad to have you there. He was at his best, and a very strong man. those close to the Throne-many states. men the world has never heard of. Shan and mai deplored the necessity of naval and military evolution, but pointed below eager with modern national spirit and China must choose her future.


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"You will wonder what these things, so
obv"ous to you, have to do with me. In pointing the way China must go in in this
youngest born of Fiternity, youngest born of Eiternity,' my friend
declared he was painting the dreams of
service of Yuan Kang Su declared he was painting the dreams of
service of Yuan Kang Su. 1 saw that his
influence was intense, and that he was exciting the conservatives, who would shortly rise against him like a plague of
hornets. Moreover, I knew that the old Throne-Mother was relentlessly against
the New; that the doctrines the New; that the doctrines of the younger men bristled with menaces for her eyes
Then I was asked to speak, and you will smile at me, Thomas, for I told them that China needed men; that China m
liberate her women to raise men-" He laughed softly
Then I went out of the assembly
rom a distance I saw at last our friend Shan Wo Kai rushing forth-his hands Thomas. And that night they brought opened it and thrust it into my breast. There was a fountain near, and I drank a cup of cold water. Looking up, I saw
these two ", He turned to the shadowv figures behind. "'They have been with me

My brain did not exactly fathom the truth. I asked questions, but Yuan's fingers for a second closed upon my wrist.
He wanted to tell the story in his own fashion.
"I was ordered away on a long journey," he resumed, "but my country gave me three months in which to prepare; and
first, I went up the River to say good-by to those dearest of hands under the bright Even in the stress I recognized the last phrase. It was a nursery idiom of the
Chinese which he had translated literally. "We which he had translated literally, Thomas-and across the river among the gardens. That is where the real Mission is to be and my father's house shall be her house; her children, even the little
Ellen, shall have the rose gardens and the id house-servants. For I have no broth the queer little mother will like that very tand. China will ask for years to underWhere is the race of Kang Su that used tiu chuan?' And the strangers shall see litte girls running to and fro with unbroken feet, among the rose gardens and of the ancestral house. If they ask her she will answer, 'This is his house, but Yuan Kang Su went away upon a long
journey. He wanted to change his country ourney. He wanted to change his country
in the swift and furious way that the ccident changes, so they sent him
Had Yuan spoken these words in his own tongue, there would have been
stately rhythm to the telling which cannot give. There was no moon. We gorge nearer and nearer, and the lights were farther behind, but the two com-
panions did not change their distance. her eyes upon the were filled with heat, Thomas; the hills held fast to the heat that day. Once a
child called; her pale face lifted and she child called; her pale face lifted and she
hastened toward the voice-running, in her thin gray dress. I can see her now in here is like the sound of the water water
her and whiter. She did note grew whiter the long journey I was to take for my country-until the night. But once she turned and saw my two friends, and
asked why they had followed us all day. asked why they had followed us all day a man, she provides against his encountering accidents.
"And then, as the night drew on, saw she was beginning to understandthat it was weird and terrible She said that she was not lonely nor miserable
when she knew I was at work: when she Iould follow my journeys and know that I was doing my best, and thinking about and haggard with her soul's tumult-that face with the child's purity upon the brow and the woman's power of the eyes and
lips. It made me suddenly impotent. A wild dream came to me-not to take the but when she saw how I was breaking, her strength came back. She is the God-
touched woman. So we had tea together, and I started
down the river. And the woman gaid, 'You


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do not mean to come back, but it will all be well with us.' I answered: 'It will all be well,' and my boat and my friends were waiting. You see, I had to hurry, or I to me than China.
"So I went first to my father; and then to the woman who was waiting, and now I have come to, my friend. It has taken ten weeks from Liu chuan, for I had to
wait for steamers everywhere. And this wait for steamers everywhere. And this
is the night of the eighty-ninth day, sinse I drank the "cup of cold water at the fountain-" "And you begin the longer journey" "And you begin the longer journey to-
morrow?" I asked, remembering the promise.,
"Yes."
"And these two friends will not go with you?" "No. They turn back to Peking." "And so they gave you the silver cord," Yuan-that was your decoration?"
"So that is the answer of the Chin you served and loved, with the best of your brain and heart?

No, you saved a few friends fro being murdered, and you came to love a woman. I spoke of China more wisely than I knew that night in Washington-"

And so this is the again
the answer Shan Wo Kai did not give me that night?"
"Shan Wo Kai fought for me
"Shan Wo Kai "ought for me."
"Yes," said I. "He is a good man with "Yes," said I. "He is a good man with I do not speak in haste, Yuan. She whom you call Conservatives-are a sick and nasty stench upon the modern world-" "But they are dying."
They have taken my friend
A third time Yuan asked me to go back to the placer. The day, was rising. I had ethereal mist was in the air. The valley-bed was like the bottom of a sea of heavenly vapors. A transparent electric blue had flooded in between the ranges. Over the
eastern heights the sun appeared like the eastern heights the sun appeared like the
tip of a flamingo plume. I told him again I would shut him from China forever. I would have carried him to the Vatican and laughed at the two as the panel shut ""You do not understand," he said. They are my friends. They would die score of times as they slept beside me. They know Yuan Kang Su. What care we for China, you and The young men Wou will go this. Tady and carry my love to the woman there. Why, Thomas, we are friends, and what have we to do with China, who know such women. Now go, for the day 1s rising-and it does not belong to me.
I do not want it.. I am finished. You would not stay
I was tiring him, and he had been so I saw his face now in the sky-blue air. It did not seem that he had met suffering.
The boy was still upon his brow. I felt The boy was still upon his brow. I fet
old China about me garroting me. I had old China about me-garroting me. I had
wrestled for hours. I was making him suffer. I took his hand. I saw that he had swallowed something. One of the Chinese brought him water, making a cup of his two hands.
if It will be fairer to me and to youif you go now quickly, and turn not back,",
he said, holding to my shoulder "We have met and lived, my friend. We shall meet and live again."

I have told it very ill, but I could not repeat my words that would show how lought for his life against the promise Moreover, it was like a fever that came to me, at the end of that night begun so joyously: and the wrestlings of fever are mercifully' shadowed by memory. I was sitting in the doorway of Headquarter They would have gone without breakin their fast, had I suffered them. They had loved him. I sent an escort with them to the Pass. At the end of the day I was at the place where we sat through the night and where i had left him. There was no across and across-nearer the valley-earth than ever before.
*The silver cord is tendered only' to nobility. The honored recipient must slay hamself within three months, or be course being considered dishonorable.

Founded 1866 ck, but it will all be
red: 'It will all be red: 'It will all b
1 my friends wer 1 my friends were
ad to hurry, or I y father; and then
waiting, and nov nd. It has taken uan, for I hak to
where. And this where. And this
y -ninth day, since onger journey to. emembering the
s will not go with to Peking."
it the silver cord, coration? ver of the China
with the best of xactly true ew friends from u came to love a
hina more wisely n Wa
yan.
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swer did not
for me.
a good man with me this once, for
Zuan. She whom and those whom are a sick and
odern worldfriend d me to go back as rising. Ar The valley-be
sea of heavenl sea
lectric blue had inges. Over the
ppeared like the ew a door that
hina forever. hina forever,
to the Vatican tand," he said, They would die
urdered them a lept beside me,
Su. What care The young mee gird their loins
ission with you to the woman
are friends, and th China, wh
to, for the da belong to me he had been so he sky-bue air
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iend ut I could no ild show how
the promisever that came night begun so
gs of fever are
emory. I was Headquarters
He greeted me. ad greeted me. $t$ with them to
e day $I$ was at ugh the night, condor sailed for the lat
honotable.

September 14, 1916
THE FARMER'S ADVOCATE.
1543

Crops from East to West. A special press bulletin issued September 5 by the Census and Statistics' Office reports on the condition of field crops in Canada at the end of August, as summarized from telegrams received from the Dominion Experimental Farms and Stations, in accordance with arrangements made between the Departments of Trade and Commerce and Agriculture. Prince Edward Jsland.-All grain, blight and insscts, will yield above average; roors, potatoes and vegetables most promising; fruit a light crop. Nova Scotia--Grain ripening rapidly
and promising a good yield; hay gathered and promising a gooo yield; hay gathered
in excellent condition. At Kentville, roots suffered from dry weather; corn unusually good; at Amherst, roots and corn have made fair growth. New Brunswick.-August, with more heat and less rain than usual, has
been very favorable for crops; oats partly harvested promise well; hay much above average; potatoes un-
favorably affected by heat will not give average yield; roots growing Quebec.-Drought has caused pre. mature ripening of grain and reduction of yield; roots, too, have suffered and potatoes are poor; at Rimouski, rains
have benefited potatoes and vegetables, and the hay crop is the best in years. Eastern Ontario-A heavy crop
hay has been gathered, and in some parts there were two cuttings. Roots parts there were two cuttings. Roots
liave suffered from lack of rain. Grain is nearly all ripe, and is threshing out a light crop owing to drought; pastures
are poor from the same cause; and potatoes are likely to be a poor crop. Brandon it is reported that the Manitoba wheat crop is about half the normal yield and practically all low grades; oats and barley are an average crop. Cutting is practically completed and a good crop: there is no corn is a good crop; there is no injur Saskatchewan.-The weather during
August has been unfavorable for grain no damage to wheat by rust is reported rrom Indian Head, Maple Creek, nd Looke, Eston, Prelate, Rosthern and scott, reducing the yield and grade
Frost is reported from points in the Moosejaw, Saskatoon and Battleford districts. Threshing is beginning in the irst week of September. At Scott was delayed by cool weather barves cutting has only iust commenced hailstorms did much injury early in the month. Late crops of wheat in low land were badly frozen on the escaped frost and rust, will do satisAlberta, eral until first week in September Some wheat crops show effects of trost on August 10 . Carmangay
crops good if they can be secured before frost, hoed crops looking fine, bridge, harvest over a week later than last year. Cutting general; no damage damage from frost, no appreciable
rust.
Lacombe, three grain over an area of 150 squared much Certain localities immune hare miles. of barley is general and wheat cutting has begun. A further ten days of good weather required to render safe British exceptionally exceptionally bright, fine month is
reported, with excellent grain harvest and for making a for cord crop of hay. Corn prospects are growing exceptionally well. Infor grain harvest wer conditions favorable of clover and alfalfa; corn backward; pulse crops good. Summerland, weather hot and dry, nearly all grain harvested, crop equal in quality. Sidney: Weather continues menced and yield good threshing comgrain and peas, second crop of red corn and chard crop of alfalfa harvested; corn and chard growing well, orchard
crops ripering and promise well


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## Calson's UNE WWAN UNDERWEAR

The Watson Manufacturing Company, Limited, Brantford, Ontario 102

## Questions and Answers.

 Miscellaneoue.Yeast Treatment for Barrenness. 1 have a cow about 9 years old but omes around her to breed again. We have opened her up. and changed sires but all of no avail Can you
give any remedy? She is a pure-bred Ans.-The yeast treatment has
given results in many cases an ordinary two-cent cake of yeast to a paste with a little warm water and allow to stand for 12 hours in a
moderately moderately warm place. Stir a
one pint of freshly boiled, lukewarn one pint of freshly boiled, Lukewarn
water and again allow it to stand from 8 to 12 hours. Mixture then will be ready for use and the entire quantity of animals to be bred. Use the mixture when period of heat is first detecte and breed when period is about ended.

Sowing Sweet Clover.
In bulletin No 235 issued by the of threshing sweet clover with a spearain thresher. If this crop grows to a height of 6 to 8 feet how can an ordinary thresher handle it? Will it not be so bulky as to bother the blower
How can an. ordinary binder How can an. ordinary binder elevate
and
successfully tie such tall stuff? Will the elevating canvases not have a tendency to carry stalks around with them and eventually become fast? 2. Will sweet clover sown in August produce seed the following year?
3. Can sod be successfull with it? F. s.W. Ans.-1."Only in extraordinary mentioned. Five feet is more nearly the average height. A grain binder can cut, elevate and tie this length of crop quite easily, as the back of
most binders is open and the knotter carl be shifted to tie very nearly the center of a long sheaf. If the packers can get hold of the straw there will be little trouble with the elevating
canvases giving trouble. It may be canvases giving trouble. it may be
necessary necessary to feed the thresher rather
slowly, but the sweet clover stalks will break up and give no trouble 2. It would be risky sowing in August. Spring seeding is preferable.


Cost and Service
The two factors considered before a purchase is made.

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Theare up to every requirement. They have no cross-beams to hin der unloading or mowing away They have metal clad, roller doors lift roof-lights, sliding side w:ndows
and "Acorn" ventiators. The and Acorn ventiators. The
cost will compare favorably with a wood frame barn.
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The Metal Shingle \&
Siding Co., Limited
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Band Instruments
write for 2 nd hand list bargains
Thos. Claxton Limited
SHORTHORNS
A. H. CROZIER

First in
First in order of importance, of course,
must be the Dominion Government's plan. This, as the Prime Minister
assured Sir Rider Haggard the other day. "Will be satisfactory to all
those who have at heart the great purpose." For its details
wait till Parliament meets.
Then there is the scheme embodied in the British "Columbia "Soldier free grant of land, and a loan of mone for improvements to each soldie
settler, with exemption school taxes, and five
from seizure for deht
There is also the scheme of the Ca ment of the ready-made farm system the Company devoting millions o dollars to this enterprise
Most of the
for abemes proposed are farm work an able body is as neces
sary as an able mind. But some forms of work on the land can be hopefully
undertalen undertaken even by men more
less disabled. The Government, through its Military
Hospitals Commission, is already Hospitals Commission, is already valescent institutions, instruction in gardening and poultry-raising; and
a good deal of progress may be expected along these lines
Canadians are therefore keenly
interested in watching experiments now being carried on in In England, the first experiment in the program of training disabled
soldiers for work on the land, started eight months ago at the Cheshire
County Council's Agricultural College, most promising.
Some of the men have either lived
in the country or worked on the land in the country or worked on the land
before, whilie others are town-bred; but alı alike have shown considerable
aptitude. They have been disabled have lost an arm each, and one a hand: perfectly competent to do good work.
work in the open air, have been of

The main endeavor has been to
make the men good, all-round farmers. Some of them will be able to manage
small farms of thrir own: others have practical knowledge to assist in gardenprgtical dairy-work, or poultry-raising.
ing, dor assist in garden-
All spend much more time in actual
work than in attending dass reon work than in attending class room
lectures; but they are learning a little
botany and chemistry, and enough veterinary surgery for simple purposes.
Some of the men have already been placed in good situations. our own country is that our returning
soldiers shall be encouraged and assisted in every practicable way t
seize the opportunities offered then
s.
$\qquad$
$\qquad$ cultural schools and colleges which
have offered to instruct men, disabled
from returning to their previous oc

$\qquad$


 L. O. Clifford Willow

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Clydesdales We tave still left some excentionally, oodstock, Ont. champions; also in-foal mares and fillies. There is a horse boom coming. Buy now

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$\qquad$ Satisfa
WOODLANDS BROWN SWISS AND PONIES
 SHORTHORNS SHROPSHIRES CLYDESDALES
 Meadow Lawn Shorthorns We are offoring a choice lot of ouls aty very
 Fin Walnut-Grove Shorthorns :w way Whank Stock Farm Shorthorn Herd $\qquad$





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 Pure Scotch and Scotch topped-Booth. Also five (5)young bull from ten to twenty months olf of the
low down thick kind good colors-reds and roans.
Prices reasonable. G. E. MORDEN \& SON, Oakville, Ont.

IRVINEDALE SCOTCH SHORTHORNS
 $\underset{\substack{\text { chatice } \\ \text { greation }}}{ }$ SCOTCH SHORTHORNS
 Maple Grange Shorthorns ${ }^{\text {Puty }}$ Socth mad R. J. DO YLE, $\qquad$









Females-SHORTHORNS-Females

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 horse up. No blister, no hair
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oorle
W.

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Calf Meal, Oil Cake Meal, Flax Seed, Distillers' Dried Grains, Gluten Meal, Brewers' Dried Grains, Write for prices.
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 ewes, ewe and ram lambs.
Alex. McKinney, R.R. No. 1, Erin, Ont

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Large selections in females all ages, bred
from the best dual-purpose families. One extra choice fifteen-months bull, some
younger ones coming on. Priced well worth the money
Stewart M. Graham, Lindsay, Ont. Shorthorns $\begin{gathered}\text { Bulls, females, reds, roans, } \\ \text { size, quality. } \mathrm{Br} \text { red ing }\end{gathered}$ milkers over 40 years. Cows milking 50 lbs. a day.
Big, fleshy cows that will nurse calves right. Prices
easy, write: easy. write:
THOS. GRAHAM, R. R. 3, Port Perry, Ont. Maple Leaf Shorthorns, Shropshires and
Berkhirres. Some choice young bulls; also a few
heifers and cows due to calve soon good rams, 10 choice shearling ewes, also ewe
lambs by Nock 16 (Imp.) A number of extra good
Berkshire sows. Hampton, On
Northlynd R.O.P. Shorthorns and Jerseys
Present offering: One Shorthorn bull old enough for
service, whose dam. his dam's service, whose dam, his dam's full sister and his
grandam in six yearly tests made an average of
over 8,500 lbs. milk, testing over $4 \%$ in an average of 329 days. G. A. Jackson, Downsview, Ont.
Burnfoot Stock Farm ${ }_{\text {high record }}^{- \text {Breeders of }}$ mation for beef. Visitors wetcome.
S. A. MOORE, Prop, Caledonia, Ont

 Shorthorns


Rainy-day Ruminations. The hired man handed me one the
other day which is too good to keep. other day which is too good to keep.
He was a new homesteader from Eastern Cawas a new homesteader from Eastern Canala, and we had been conversing
about the country from time to time, about the country from time to time.
I had been telling him about the toughness of the root-bound
with its
prairie
saskatoons, wod briars and poplar, not to mention the close-knit turf formed by the native
grasses. I had assured him that though the dry cool weather of May prevented
the rapid top growth of grain and grass the rapid top growth of grain and grass
which he was accustomed to in the East, yet, the roots were developing ready to shoot the plants ahead when the June
rains came. When, later, about the first of June, an unseasonable frost frattened out the stools, I was again
ready with the comforting
reflection that the roots were still there developed to a stage where they could soon make "I think," he replied, quizically
"this must be a great country for "this, must be a great country for
roots." It does a farmer and proud of it, but it does tempt a feeling of shame some
times at the narrowness and superstition exhibited by a minority of the class
to which we belong. It seems as superstitions are rather more prevalent among rural than among urban peoples Many connect it with weather and
crops. About a year ago a few weeks crops. About a year ago a few weeks
of dry
weather had threatened to shorten crops of timothy and cereals.
A neighbor came over to m neighbor came over to borrow
marking that his timothy mower, remarking that his timothy
was all burning up, and he was going
to cut it at to cut it at once. He scoffed the
suggestion that rain might come soon.
""There'll be no rain here till the war's over," he declared. "The cannonading is bringing all the moisture down
over in Europe." That afternoon over in Europe." That afternoon
it , rained, and from then on we had as delightful a season of warm showery
weather as weather as one could wish to experience,
and the finest harvest in the history of Grande Prairie.

This year it really did begin to look
something very near a crop something very near a crop failure
on all except well-prepared summer-
fallow or breater months of April, May and the three three-quarters of an inch of rainfall was registered by our official gauge,
and farther east on Grande Prairie I understand there was not a single shower of any account since seeding.
The
situation became The situation became serious, con-
servative minded men expressed the fear that possibly this might prove
to be our first season of crop A couple of new settlers were discussing the case the other day and wondering whether there was much in these June rains they had heard so much about. Irony of ignorance. On the morning
of July 3 it commenced to rain, a light misty sprinkle from a bain, a
sky. "Rain 'leven" was the confident prediction of one of them and he started away
in his shirt sleeves for the returned wet to the skin. The drizzle grew into a drench, pouring through
sod roofs and straw stacks and every other shelter not absolutely water
tight. Over three inches have failen up to the moment of this writing whether the downpour is half over yet. The cannonading in Europe must For two years we let spring and summer freshets pour down the "draws"
and then hauled water for the stock have taken. a leaf from the book of several neighbors and scraped out a
pond in a natural hollow near the barn, using the earth moved to raise the the "draw" just below the excamming it is nearly full now, and I only wish A number of similar ponds in the vicinity
supplied water nearly all through
then the severe cold of last winter for
considerable herds of stock. We
shall deepen tunity. Fencing was all that pre-


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 especially suitable for foundation purposes.
MITCHELL BROS.
Burlington, P.O., Ont.
 Emilys, etc Many of them one and two-year-old heifers. Also several young bulle of fellows and bred just right, James McPherson \& Sons, Dundalk, Ont
Spring Valley Shorthorns
Canadn's Grand Champion Shorthoris of 1914-1915

4GLENGOW SHORTHORNS AND COTSWOLDS Pure Scotch in breeding, we have an exceptionally choice lot of bulls for this season's
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Scotch Shorthorns, Yorkshires, and Oxford Downs $=32070=$. Benachie (imp). $=69955=$, and Royal Bruce (imp.)
T Impor Stor
 met
mett trains at Burlington Jct. at any time, if notified. DUMFRIES FARM HOLSTEINS Think this over-we have 175 head of Holsteins, 50 cows milking, 25 heifers due to calve in the fall,
and 60 heifers, from calves up to 2 years, as weil as a dozen yearling bulls, and anything you may
branches. I set out this spring some apple trees, currants, raspberries and a variety of ornamental shrubs reunder special arrangement. At the same time we transplanted some wild raspberries and native saskatoons, which latter are so hardy they can scarcely be killed. A small piece of root remaining in the breaking will send up fresh shoots whenever it gets
the chance. I naturally expected the chance. naturally expected that of all we set out these would make currants came on first, every plant doing well. The apple trees and ornamental followed suit and most of these survived the long shipment and subsequent ordeal of cold drying winds. The wild raspberries were next in promptness and vigor of foliage, while the domestic raspberries and the saskatoons were tardiest little dubious deed the former when at dubious served most of them springing up from the roots, the original stems having apparently died, notwithstanding that they had been well pruned back, as were all the other trees and bushes. I did not despair of the saskatoons, but they certainly took their own time about showing signs of life. the manner of the tame rasps (the wild rasps had put out foliage and blossoms from the canes). Now why were the raspberries the slowest of
all the domestic fruits in developing foliage and the saskatoons, transplanted under exceptionally favorable conditions, slowest of all?
What little
What little evidence we have encourage the expectation that many raspberries, wild currants, wild berries and probably strawberries -would thrive much better and produce a larger quantity and superior sample of fruit if transplanted into gardens and suitably cultivated. In the wild state they suffer in most seasons from lack of moisture. Native strawberries growing in thick turf seldom fruit to any important extent, up on breaking they One of our enterprizing neighbors set out a short row-a couple of rods perhaps-of wild raspberries in his garden, and last summer picked a nice quantity of delicious fruit. Guarof by cultivation a liberal supply the bushes and plant food and deliver res and it from competition with grass and it is reasonable to anticipate extend my reward. I intend of domestic varieties. Why not?

Speaking of weather, we possess climate peculiar unto itself so far as signs are concerned. Perhaps proximity to the mountains is the utterly of other regions. It is liable to be most cloudy in drouth and to be rom practically a clear sky The only thing we can count on is the unof and we are not always sure

Grande Prairie, Alta.
Questions and Answers, Miscellaneous.

Use of Ram-Cutting Clover 1. What is the usual fee for the use how long when you take ewes in, and how long should I keep them? seeding of clover any does this year's seeding of clover any harm to run the and when should it be cut the ragweed, Ans. - 1. For 50 cents for generally $\$ 1$ weeks on grade ewes. Keep them six set the mower at all, cut at once and would be afraid it would weaken the plants
naught September 1st the Duke of ConParliament Buildings, first laid by the brother, King Edward, then Prince of

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 KING OF THE PONTIACS at reasonable prices. Correspondence solicited.

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1 YEARLING BULL
Bull calves from 10 months down. Could spare 10 cows or heifers, bred to the great bull, KING REGIS PONTIAC DUPLICATE. R. M. HOLTBY, Port Perry. Ont.

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Herd headed by May Echo Champion, full brother
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Bulls, Bulls Wo have several young But ready for crevice sired by the tor male.



Please mention The

## Big Dinners

The bigger the family the greater the need for this new Coal Range with the Handy-height oven. There is an almost un- po rs
believable number of trips to the oven while a big dinner is under way. That is what makes the work so tiring. Constant stooping does so weary the back.

And here, to lighten that work is the Lighter Day -the Coal Range with a Handy-height Oven.

A big capacity oven with a Clearview door of glass. You lift the dishes in and out of this oven without bending your back. You watch things baking without opening the door-and without stooping. The thermometer is at stand ing height too. Everything is contrived to take the last ache out of baking.

And for big dinners! The number of things that can be cooked quickly and kept hot on the Lighter Day Coal Range would astound you.


Where there are many mouths to feed there should be a Lighter Day in the Kitchen. Anyone who would like to know more about this wonderful range should have a copy of our booklet "A Lighter Day in the Kitchen." This is a book made from photos of a housewife actually using the Lighter Day Range
A copy will be A copy will b sent without charge to an this coupon.
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Lighter Day Range

$\qquad$

Clare Bros \& Co., Limited pRESTON, ONT

There must be three times the usual warming space. The warming closet over the oven is heated like an auxiliary oven. Below the oven is a large storage closet often used for stowing away pots and pans. This is a famous warming closet when there is a big crowd to cook for. Besides this unusual warming space there is a shelf over the cooking top where plates and dishes may be warmed and kept in readiness for serving.


There are six pot-holes. Four of these are placed in the wide cooking top. Two are fully enclosed to shut in odors of cooking. There need never be an odor of cooking vegetables in the house.

And when dinner is over there is an abundant
supply of water on hand to wash up. The res is kept at boiling heat
 5


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 keep silage fresh, suwet and
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## STAMMERING



Glencairn Ayrshires $\begin{aligned} & \text { Herd establishhec } \\ & 40 \\ & \text { y ears. } \\ & \text { Pro }\end{aligned}$


Questions and Answers. Votorinary.

Infectious Ophthalmia-Difficult Breathing.

1. Cows have sore eyes. They run water, and then a white scum forms
and causes temporary blindness and and cases temporary blindness and
they get better. Others are still blind in one eye.
2. Horse had distemper last spring He got better and we worked him all
spring. About the middle of June he spring. About the middle of June he
commenced to breathe heavily. I have had three veterinarians examine him
Two of them did not know what was wrong, and the third said the trouble in in his nostrils and he is not likely to
recover. Ans. -1 . This is infectious oph
thalmia. Isolate the diseased cows and theep them in partially darkened stalls. Give each 11 lb . Epsom salts and 1 oz sulphate of zinc, 20 drops fluid extract of belladonna and 2 oz . distilled water Bathe the eyes well three times daily
with hot water, and with hot water, and after bathing
put a few drops of the lotion into each until they clear up.
2 .
3. The veterinarians who have ex position to diagnose than I. It is
probable the third one is correct and the trouble is a growth, called a polypus
in the nostril. In some cases this be removed by an operation.
A Diarrhora in Young Pigs. smart, healthy pigs. When ten darrowed old ore took diarrtheaa and died in a few
days. Three others also died from the same trouble. I then took the others
from the sow and fed on cow's milk,
but in a few days the same trouble and died. Besides six of which appear to have diarrhea and one has died. In some the diarrhtea has ceased and they are constipated.
Their feed consists of $2 / 3$ oats, $1 / 3$ barley and a little buckwheat.

Ans.-In our issue of July 27th last,
you will notice an article you will notice an article on this subject.
The original trouble is either infection, or an altered condition of the sow's
milk. When the pigs were taken from the dam and given cow's milk it should have been diluted with warm water 1 of sugar added to each pint. If those remaining are not too weak give each
about a teaspoonful of castor oil, and in 8 or 10 hours make a mixture of one part formalin and four-fifths new milk, teaspoonful of the mixture, and about $1 / 4 \mathrm{of}$ its bulk of lime water. To those
suffering from suffering from constipation give sufficient
castor oil $\begin{aligned} & 1 \\ & \text { to } \\ & 2\end{aligned}$ tablespoonfuls) $^{\text {ando }}$ to act gently on the bowels, and then give sufficient of equal parts of Epsom the bowels. normal. Feed on milk as above, middlings and choped oats
with the hulls sitted out, omit the barley with the hulls sifted out, omit the barle and
infectious you may the trouble be
of the whole herd and dispose disinfect the farrowing pens and other premises before introducing fresh stock.

## Miscellaneous.

Alsike Seeding.
I have a field prepared for wheat but it
rather low so if
rather low, so if I sow alsike on it
alone this fall, would I reap a crop o
Ans.-It is too late to sow alsike this
fall. Better sow with sirring grain and sced down to alsike next spring unless

## Sun Spurge.

I ann enclosing plant for indenti
patch. Please let me know through
'The Farmer's Advocate name, habits
etc. Ans.-The weed is sun spurge $\begin{aligned} & \text { J. D. } \\ & \text { an } \\ & \text { annual plant which is a common weed }\end{aligned}$ In gardens and waste places, It it is
most trublesome in light sandy soils.
Seeds are frequently found in com nercial. seeds. It gives little trouble
land worked under short rotation
crops. Keep late plants from seeding


## The Sharples Separator Co. <br> Toronto <br> Canada

 PIONEER FARM HOLSTEIN HERDOf long-distance record makeres, the rerd twat mill heavy and test around 4 per cent. the whole yean Honer Farm. Young bulls for sale from dams of the same breeding as these and sired br canary WALBURN RIVERS, R. R. No. 5, INGERSOLL, ONT. Phone 343L, Ingersoll Independens Evergreen Stock Farm Regigetered Holsteins. The kind that test $4 \%$ and wins in the choice young bull, eight months old, we have one that is strictly a ayit-edge individual, almost wamucl
white as black. The records of his dam, sires dim and




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## 

GLADDEN HILL AYRSHIRES laurie bros.




 Oxford and Hampshire Down Sheep

## Farnham Farm The foldest istathinhed




## all and

Fairview Milkman H M R HHRELS

1 nths of age, females all ages. II this kind of production appeals to youl
James Benning, Williamstown, Ont. CANADA'S MOST BEAUTIFUL JERSEY HERD

September 14, 1916
English Live-stock and Agricultural Notes.
Editor "Tне Farmer's Advocate"; Sheep are making great prices in Britain. Whatever class of animal ite
farmer has to offer, provided it is at all suited to its particular purpose, he is assured of a good market. Breeding stock, if not so dear relatively as grazing or fat, have made good money at an the southern sales. Ha pel Down, ram lambs at Blandord fetched
up to 95 guineas (let) and 60 guineas (sold), and at Ipswich a Suffolk ram lamb brought 140 guineas from "a Scottish buyer, and others made 120 guineas and 84 guineas. Longwools also are in demand, as was shown at Exeter and Taunton, where Devon Longwool rams made up to the guineas. Mat ${ }^{\text {Ram }}$ Fair the Duke of Marrorough bought one of the Messrs. Hobb's Oxford Down ram lambs for 72 guineas, and to 40 guineas. Beverley in the sale of the Leconfield Lincoln longwool, shearling rams, the amount realized for ninety shearlings sold was 1,595 guineas, giving the excel-
lent averase of a little over $\Varangle 18$ 12s. lent average oh a pre
per ram. Highest price paid was 54
5
 Quality 2 nd, after spirited competition.
 North Dale, who paid 51 guineas for
another fine animal by Horkstow Cb another fine animal by Horkstow Cham-
pion. Ewes
met with
purchasers
 in situord Sheep Fair James Flower's
sixy , three
ram lambs
late competed for. Mrs. Jervoise hired No. 1
at 180 at 1800 guineas, Stuarey (for Major (for J. G. Williams) No. 3 at 60 guineas, Thorotd (Tor sir George Cooper) No No. 5 at 100 guineas, making an average of f 138 . 12 s . Others were sold up to
100
guineas.
The average for the
for
 14s: Gd.-a record letting and a record At Newmarket sale of Sufoolk sheep,
ninety shearlings 1 Irom
 0.. 6 d ., top price being $5615 \mathrm{s}$. . The ram hambs sold up to 60 guineas and
51 guineas, these being the of the day, Theses fingres wero obtained
by. R. Burrell. Wester. signment of a orety destey, whose con-
 Cassel. Stowe-Nine Churches fock from the Down theen belonging to George
Roberts, sold well.

For ewes (sold in pens of five) top price was $k 715 \mathrm{~s}$., | given by W. P. Horstey The highest |
| :--- |
| figure for the yearling ewe mos. fio | paid in two cases.

in
Cumberland ard the Border

 each. These rices are generally from last year. In Cheshire ewes are 9s, last year. The result of the sale of the flocks S. W. Jefferys at Black Bred by the late land, indicates the present spirited price of the sheep tradc. The average
highet bree!. The weighty dor a flock of the shire and neighboring counties are
maintaining native territory as well as in the Scottish Cowlands. The British South Africa this season of made its third shipment farms in Rhodesia. The cattle to its
consisted and two bulls, and twentye Shorthorn
heifers and heifers and two bulls from well-known
herds. trophy offered for the best bull of any
breed Society at their annual show has been
won this succession) by Mr. Drummond Fee in with his roan bull Lomond, which is by

H. ARKELL w. J. ARKELL Summer Hill Stock Farm

## OXFORDS

in Canada. Look up our show record, it will give you an idea of the PETER ARKELL \& SONS, Proprietors, Teeswater, Ont. Customers, beware of imitations of this advertisement
blairgowrie shropshires and Shorthorns


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Ont
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Ewes and Ewe Lambo for quality. foundation of flock imported by R.J. Hind.
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D Mesco DRM


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Herolds Farms, Beamsville, Ont. Alderley Edge Yorkshires J. R. KENNEDY, Knowlton, Que TAMWORTHS our wice young sepears. Writ Write: Meadow Brook Yorkshires-Sows bred,
 one Shorthorn buil 18 months oid
G. W. MINERS, R.R. 3 , Exeter, Ont. Duroc Jersey Swine $\begin{gathered}\text { Afewu forice } \\ \text { bred }\end{gathered}$

 ELMFIELD YORKSHIRES






Pine Grove Yorkghire. Bred fom prize.

 Swine for Saleo. Anion ofering choice stook
 Townline Tamworths Veecan Sutply

 Duroc Jerseys For 13 sears our breed






an imported bull out
bred Shorthorn cow. The cereal crops on some of the farms near Ormskirk, were sold on the scound and high prices were realized. In ond case the average for wheat and oats
was close to 614 an acre Recently a party of English Holstein herdders toured amony the scottish
hed of this breed of catte, taking advantage of the Cradlehall
Inverness to sale at Inverness io see what some of
breeders sin the north are doing. irst dispersion
Hosstenin-Friesian
Crater Cradlehall, Inverness.
Counded 30 years ago,
McBes. The herd McBean. The majority of the cattle
were bought this bought by English breeders of one cows, calves, and heifers averaged
$£ 77{ }^{15 \mathrm{~s}}$. 4 d being $£ 4,74318 \mathrm{~s}$. The average realized is $£ 20$ above the record. The top
price was 180 guineas, given by Messrs price was 180 guineas, given by Messrs.
Wallace, for a five-year-old cow, while guineas., to Messrs. A. calf made 85 A five-year-old cow and a two-year-old
heifer made 140 guineas There has been the reappe Dutch cheese on the counters of most decidedly lower than when at a price seen there four or five months ago ing for its meanwhile, had been absorbproduct; but difficulties of various
kinds have arisen, and a steady stream of Edam and Gouda cheese, and especialthis country. The Germans are so
much annoyed that, not content with
threatening the penalties if they assist to feed the
English, they have prohibited the import of fish from Holland into Belgium,
which would create a virtual monopoly Which would create a virtual monopoly
of the Dutch fish market by Germany.
Ratterdam. is protesting


Questions and Answers. Miscellaneous.

Scirrhus Cords.
Clydesdale geldings that were cyear-ole
when yearlings. healed up there was an the wound of each horse there is an enlargement as large as in an entire. $\quad$. McC
Ans.-This condition is one of the
untoward results of castration that untoward results of castration tha
occasionally occurs. it is called
o"Scirla sists in a second operation, more difficult
than the first. Some life with a scirrhus cord which does
not
interfere not interfere with their usfulness.
In other cases the growth benomes so large it is necessary to get a veterin
Winding Up Estate.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
him?
executor claim? percentage can each
orlitant charges he wishes, or is he re-
$\qquad$2 Y. Yes, but not without his consent.on the ficiaries, and the other executor- hiere is no legally fixed per-muncration for services rendeasod and

## 

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long. All hogs guaranteed to Oak Park Stock Farm, W. G. BAILEY, Prop CHERRY LANE BER AND TAMWORTHS sale both breeds of any desired age, winners in the West. S. DOLSON \& SON,

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